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PROJECT CHARTER

Automated Fluid Minerals Support System Project

U. S. Department of the Interior
Bureau of Land Management

April 5, 1993

Project Charter

for the

Automated Fluid Mineral Support System (AFMSS) Project

Module 1

April 5, 1993

This is a Revision of the AFMSS Charter
Approved by the IRMRC on October 27, 1992

Prepared for:

U. S. Department of the Interior
Bureau of Land Management
Information Resources Management Review Council

Prepared by:

U.S.D.I., Bureau of Land Management
New Mexico State Office
Colorado State Office
Montana State Office
Wyoming State Office
Alaska State Office
Eastern State Office
California State Office
Utah State Office

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AUTOMATED FLUID MINERALS SUPPORT SYSTEM

PREFACE

In 1992, New Mexico and DSC personnel developed a prototype to demonstrate the oil and gas interface to ALMRS. A project was developed to expand this prototype for implementation for the oil and gas program. The charter for the Automated Fluid Minerals Support System (AFMSS) was approved by the Information Resources Management Review Council on October 27, 1992. After comments that the proposed project did not address critical needs such as the I&E program, the Assistant Director, Energy and Mineral Resources directed the Project Manager to convene a user group representing all program areas to review the programs needs and specify priorities for automation of the programs activities in coordination with Modernization. The BMT and Round 1 of Reengineering for Quality concurred with this direction with special attention to the I&E program and the AIRS system. The user group met in Salt Lake City in January, 1993. The current charter and preliminary project plan are based on the results of that meeting and comments from the field and Service Center personnel.

A significant unknown at the time of preparation of this charter and plan is the relationship with the Modernization contract, particularly with regard to procurement of the system platform. It appears that the hardware and software can be obtained from the contract. The amount of additional funding for this procurement that may be required from the project is unknown at this time. The budget estimates in this charter present two scenarios -- one for the procurement covered by the contract and one for the procurement covered by the project. The situation should be clearer for the April 27, 1993 IRMRC meeting.

AUTOMATED FLUID MINERAL SUPPORT SYSTEM - MODULE 1

1.0 EXECUTIVE PROJECT SUMMARY

1.1 NEEDS STATEMENT: The Oil and Gas Program has received significant criticism in recent years from the Inspector General (IG) and the General Accounting Office (GAO). The Inspection and Enforcement program is currently identified by the IG as one of four **Material Weaknesses** in the Department. Problems have also been identified in other activities, including: Drainage, Production Accountability, Hazardous Material Inventory, and temporarily shut-in wells. Also of concern are the impacts on ecosystems resulting from oil and gas activity on Federal lands.

Background:

- The AFMSS project charter had been approved by the IRMRC on October 27, 1992. As a result of concerns regarding the I&E program, and later discussions at the Fluids Workshop, the BMT and Round 1 of Reengineering for Quality recommended that the AFMSS project focus be modified to address these concerns. A broad-based users group met in Salt Lake City in January, 1993 to address and set automation priorities for oil and gas program functions. This charter is the result of that effort.
- The Program uses the Case Recordation System (CRS), the Automated Inspection Records System (AIRS), the Monthly Report of Operations (MRO), commercial well data and manual files.
- There are problems with data maintenance and validity, limited access, duplication of data, and insufficient standardization of data entry and processing.
- Tracking of activities has been inadequate.
- Individual offices use customized computer applications to support their oil and gas program activities.
- The AIRS/MRO systems have survived beyond their planned life cycle and no longer meet all their intended objectives.
- The ALMRS project will only address some of the lease adjudication functions of the program. Other functions would be considered under the Resource option. If this option is implemented, these functions probably would not be available until the year 2002.

- In 1992, New Mexico and DSC personnel developed a prototype to demonstrate the oil and gas interface to ALMRS. While limited in scope, this prototype demonstrated the potential for enhancing program activities. It also resulted in the formation of an experienced core development team.

1.2 PROJECT FUNCTIONAL REQUIREMENTS: By the end of FY 1997, plan, develop, and install module 1 of the Automated Fluid Minerals Support System that:

1. Provides a distributed relational data base system, integrated with ALMRS IOC on the Modernization platform, that forms the foundation to support the oil and gas program functions, i.e. inspection and enforcement, lease operations, lease adjudication, and reservoir management.

2. Meets the functional requirements of the I&E program, including replacing the AIRS system and possibly replacing the MRO system.

3. Supports selected activities of the lease operations and lease adjudication functions. The selection of supported activities will occur during the system analysis stage.

4. Provides the base, when integrated with the full ALMRS implementation, to support map-based and other functions of the oil and gas program not implemented in Module 1. These other functions would be implemented by separate projects.

1.3 PRELIMINARY ALTERNATIVES:

1. Wait for development of the resource option of the ALMRS contract: Implementation of this option, if it happens at all, is currently scheduled for the year 2002. Identification of the I&E program as a material weakness and problems with the AIRS/MRO systems will require a major rewrite of those systems for them to remain viable until that time. The other aspects of the program will continue to suffer from the inadequacies of the current fragmented and incompatible data systems.

2. Accelerate development of map-based and other functions not included in Module 1:
   Attempting full implementation of the complete AFMSS conceptual model in one step would require excessive funding and resources, and would be highly unlikely to meet its objectives.

2.0 RECOMMENDATIONS

2.1 Approve the project charter.

2.2 Adopt the preliminary budget estimates of $328,000 ($408,000) for FY 93, $533,000 ($773,000) for FY 94, $653,000 ($1,743,000) for FY 95, $628,000 ($1,718,000) for FY 96, $450,000 ($550,000) for FY 97, and $100,000 per year for FY 98 - FY 02. (budget if project pays for platform)

2.3 Approve the following critical milestones for IRMRC review and "go/no go" decision points:

- System Design Stage (approval of a design alternative) - 11/30/93.
- User Acceptance Stage (approval of constructed system and implementation plan) - 10/17/95.
- Implementation Stage (pass to O&M, project termination) - 11/18/97.

2.4 Approve the following project team personnel:

- Project Manager - Joe Chesser (NM-921)
- User Representative - Paul Brown (NM-921)
- Project Sponsor's Agent
  John Broderick (WO-690)
  James Gazewood (WY-920)
- User Group Coordinators
  Montana - Ed Burks
  Colorado - Kermit Witherbee
  Wyoming - Mike Madrid
  Utah - Al McKee
  New Mexico - Rick Wymer
  California - Ken Holden
  Alaska - Chris Gibson
  Eastern States - John Dohan
- User Group
  User Representative - Paul Brown (NM-921)
  Tim Abing - Milwaukee DO
  Michael L. Coulthard - Utah SO

Nicholas Douglas - Bakersfield DO
John Evans - DSC
William Gewecke - Wyoming SO
Christopher Gibson - Alaska SO
Jim Lovato - Durango RA
Michael Madrid - Wyoming SO
Stephen Mason - Farmington DO
Patty Ramstetter - Utah SO
Matthew Stewart - Jackson DO
Richard L. Watson - Colorado SO
Chun Wong - Montana SO

The user group will be dynamic and change as needs dictate. The above named personnel met at the user group meeting in March, 1993 in Salt Lake City. It is expected that there will be a greater concentration of users involved in the I&E and Lease Ops programs. In addition, participants from MMS and BIA will probably be included.

- System Owner - Erick Kaarlela (WO-610)

- Project Management Board (PMB)
  Paul Brown (User Representative)
  Deputy State Directors, Minerals
  James Ferguson (Project Management Coordinator)
  David Shaffer (Operation and Maintenance Coordinator)
  John Deuter (Quality Assurance Coordinator)
  Mary Williams (MMS Representative)
  Dick Wilson (BIA Representative)
  Industry Representatives

2.5 Approve the following development and test sites:

- Project Development Site
  New Mexico State Office

- Beta Test Sites
  Bakersfield District
  Farmington District
  Durango Resource Area
  Great Falls Resource Area

Project Sponsor Date

AUTOMATED FLUID MINERAL SUPPORT SYSTEM - MODULE 1

INFORMATION RESOURCES MANAGEMENT REVIEW COUNCIL APPROVALS

____ Approve the project charter.
____ Reject the project charter.
____ Other (specify)

____ Budget Estimate ($328,000 ($408,000) in FY93, $533,000 ($773,000) in FY94, $653,000 ($1,743,000) in FY95, $628,000 ($1,718,000) in FY96, $450,000 ($550,000) in FY97, and $100,000 in FY98-02)
____ Other (specify)

____ Critical Milestones (as recommended)
____ Other (specify changes or other milestones)

____ Project team personnel (as recommended)
____ Other (specify)

____ Development and test sites (as recommended)
____ Other (specify)

____
Chairperson, IRMRC (date)

Comments or special directions to the sponsor:

____
____
____
____
____
____

3.0 BUSINESS NEEDS STATEMENT

The Oil and Gas Program has received significant criticism in recent years from the Inspector General (IG) and the General Accounting Office (GAO). The Inspection and Enforcement program is currently identified by the IG as one of four **Material Weaknesses** in the Department. Problems have also been identified in other activities, including: Drainage, Production Accountability, Hazardous Material Inventory, and temporarily shut-in wells. Also of concern are the impacts on ecosystems resulting from oil and gas activity on Federal lands.

The Program uses a variety of data sources, including: the Case Recordation System (CRS), the Automated Inspection Records System (AIRS), the Monthly Report of Operations (MRO), commercial well data and manual files. Some data systems, such as AIRS, are created and used by Bureau personnel. MRO is created by MMS and transmitted to BLM.

There are problems with data maintenance and validity, where data is stored on different mediums and systems and where there is insufficient validation of data before and after entry into an automated format. Limited access to data is a problem due to inadequate communication between offices and storage of data on stand-alone PC's. Duplication of data is rampant. The need for the same data at various sites requires its storage at all of these sites due to the limited access problem. Due to poor data structure, the same information may be entered many times into the same system, not only duplicating data entry and storage but also increasing the potential for error. Insufficient standardization of data entry and processing makes it difficult to share data and to aggregate data over many sites.

Tracking of activities has been inadequate. It is difficult and time-consuming to determine the status of permit processing, bonding, and other activities. Tracking should be available at the touch of a keyboard or mouse instead of laboriously searching through manual files or contacting other staff.

Individual offices use customized computer applications to support their oil and gas program activities. While this helps those offices, it would be much more efficient to standardize many of these applications and share them with all relevant offices.

The AIRS/MRO systems have survived beyond their planned life cycle and no longer meet all their intended objectives. Problems arise such as changes to reflect new requirements for inspection resulting in a system that is not as cohesive or easy to use as earlier versions. The version of PC-Focus used is not compatible with DOS 5.0, but the AIRS program must be modified to work in the latest version of PC-Focus. The tape drives used for transferring data are no longer made. These are just examples of what can happen to any system that has survived beyond its planned life-cycle.

AUTOMATED FLUID MINERAL SUPPORT SYSTEM - MODULE 1

The ALMRS project will only address the lease adjudication functions of the program. Other functions would be considered under the optional resource applications. If these options are implemented, they probably would not be available until after the turn of the century.

In 1992, New Mexico and DSC personnel developed a prototype to demonstrate the oil and gas interface to ALMRS. While limited in scope, this prototype demonstrated the potential for enhancing program activities. It also resulted in the formation of an experienced core development team.

Users representing each program function, following a systematic process, identified areas that needed to be automated. As a part of this process they recognized data flow and relationships and identified a sequence for the function to be automated. It was decided that the core data base should include data concerning: leases, bonding and surety, wells, production, agreements, and approvals of operations and compliance. These data are used by all program functions. The users also concluded that the first module to be developed will focus on the lease operations and the inspection and enforcement functions of the program.

Lease operations includes the evaluation and approval process for operations such as permits to drill, water disposal, sundry notices/reports, development agreements (Communitization and Unit Agreements), and bonding.

Inspection and enforcement insures that operations are conducted in accordance with approvals and agreements and with regulatory requirements. It involves inspecting wells that reside on leases and may be part of a development agreement. This ensures compliance and proper production accountability.

It is expected that the ALMRS project will meet many of the lease adjudication automation requirements. This assumption will be verified as part of the IOC project. AFMSS will be designed to provide for the proper linkage at the appropriate time.

Reservoir management's automation requirements concern analytical tools that are available through commercial software. Priorities have been identified and as resources are available, standards and procurement will be pursued.

The following table summarizes for each data category the functional areas that use that data, the availability of data and the sources of the data.

Table 1

Data Use by Function

Data Category	Functional Area I&E	Lease Ops	Lease Adjud	Res. Mgmt	Avail-ability	Source(s)
Lease info.	X	X	X	X	Complete	Case Recordation
Bond info.	X	X	X	X	Partial	Bond & Surety
Well data	X	X	X	X	Partial	AIRS & Commercial/State
Prod. data	X	X	X	X	Complete	MMS, State, Comm., & in-house
Geo. data	n.a.	X	n.a.	X	Partial	Commercial & in-house
Agreements	X	X	X	X	Complete	Case Recordation
Compliance	X	X	X	n.a.	Complete	AIRS
Facilities	X	X	n.a.	n.a.	Partial	AIRS
Maps	X	X	X	X	Partial	Various

X - Extensive use of data.
n.a. - Little or no use of data.
Complete - Data is currently available.
Partial - Some of the needed data is currently available.

AUTOMATED FLUID MINERAL SUPPORT SYSTEM - MODULE 1

4.0 PROJECT FUNCTIONAL REQUIREMENTS

By the end of FY 1997, plan, develop, and install module 1 of the Automated Fluid Minerals Support System that:

4.1 Provides a distributed relational data base system, integrated with ALMRS IOC on the Modernization platform, that forms the foundation to support the oil and gas program functions, i.e. inspection and enforcement, lease operations, lease adjudication, and reservoir management.

4.2 Meets the functional requirements of the I&E program, including replacing the AIRS system. Replacement or modification of the MRO system will be considered. Removes the data integrity issues that impact the Bureau's ability to provide accurate and timely data to the Minerals Management Service (MMS). Provides consistent and accurate reporting of inspection and compliance accomplishments. Prepares the portions of the Quarterly Fluid Minerals Report determined to be retained, replace individual well records, provide query capability that will be comprehensive and easy to use, and accurately record and track inspection and compliance accomplishments.

4.3 Supports selected activities of the lease operations and lease adjudication functions. Activities to be supported will be determined during the system analysis stage.

4.4 Provides the base, when integrated with the full ALMRS implementation, to support map-based and other functions of the oil and gas program not implemented in Module 1. These later modules would be separate project initiatives. Provides a catalyst for other programs to be supported by the larger Bureau system i.e. environmental planning, and other resources.

5.0 PRELIMINARY BENEFIT COST ANALYSIS

5.1 ALTERNATIVES

5.1.1 The Current System

Assumptions

- The AIRS system is upgraded to DOS 5.0 and PC-Focus 6.0 with the necessary reprogramming.
- AIRS will require a major redesign effort with a designed life cycle extending until implementation of the Resource option in 2002.
- Most of the lease adjudication functions will be automated as part of the ALMRS project. This does not include lease sale activities.
- Other oil and gas program activities will not be automated in a consistent manner. Some individual offices will automate isolated activities, but they will not be integrated with ALMRS or other offices.

Risks

- There is a high risk that inspection and enforcement will continue to be a material weakness for the Department after a redesign of AIRS/MRO due to its lack of integration with ALMRS and other oil and gas activities.

Costs

- Redesign of AIRS is based on a proposal by the Division of Resources, DSC to put out a contract to conduct an AIM project to redesign AIRS for installation on LANs in each office currently using AIRS.
- The O&M period extends to 2001, assuming the Resource option for ALMRS will replace AIRS after that point.
- The total cost over 8 years is $6,598,000.
- The average annual cost over 8 years is $825,000.
- Table 2 summarizes the costs by category and fiscal year.

Table 2

Project for Redesign of AIRS Only
Annual Costs for Development and O & M by Fiscal Year
Figures in $1,000

Cost Category	1994	1995	1996	1997	1998	1999	2000	2001
Equipment	700	0	50	100	50	250	250	250
Programming	500	300	300	300	300	300	300	300
Software	100	0	33	33	33	33	33	33
User Requirements	500	0	0	0	0	0	0	0
Training	100	200	25	25	25	25	25	25
Documentation	200	0	0	0	0	0	0	0
Contractor Overhead	250	50	50	50	50	50	50	50
Bureau Oversight	200	0	0	0	0	0	0	0
Total	2550	550	458	508	558	658	658	658

The development costs will probably occur in FY 1994 and 1995.

5.1.2 AFMSS - Module 1

Assumptions

- **Scope:** The scope is Bureau-wide. All oil and gas functions will eventually be incorporated into the system with the exception of those functions determined to be not cost effective. This effort shall interface with the Minerals Management Service, the Bureau of Indian Affairs, Forest Service, State Oil and Gas Commissions and Industry.

- **Relationship with earlier work:** The SSS and SRS documents previously compiled for Fluids automation are being used in this project. They will be validated and updated by the user group with priority for automation assigned to each component. This work is already underway.

- **Relationship with Modernization:** Development and implementation of the Automated Fluid Minerals Support System will be conducted so as to support and compliment the Bureau's Modernization strategy. It is expected that the system will be accomplished in several modules. The first module will focus on lease operations and inspection and enforcement and will replace AIRS. Replacement of MRO will also be considered. It is expected that ALMRS will include most aspects of adjudication. AFMSS should tightly integrate the Fluids case recordation data with the resource data. Later modules will address GIS capabilities and

other functions not addressed by module 1 and ALMRS. These modules will be treated as separate projects.

- **Distribution:** It is expected that AFMSS will follow a similar distribution as the modernization project. This project will determine the specific requirements by an analysis of data volumes, data storage and numbers and frequency of user types. Installation requirements will be worked out with states and individual offices in coordination with Modernization.

- **Included Functions or Systems:** Module 1 will include AIRS and possibly MRO. Other automated systems may be identified during the analysis stage. If/when other AFMSS modules are developed, data from CRS, LLD, Status, commercial well data, and other resource data bases will be included. While mapping will not be included in module 1, the database design will, to the extent possible, reflect the eventual addition of the mapping capability when added by Modernization.

- **Data Conversion:** Conversion programs will be developed to allow the connection with other systems. Every effort will be made to design AFMSS so that it may be easily used with related systems or data bases. Where appropriate AFMSS data standards will move to industry data standards.

- **Information Maintenance:** Data standards will be followed and edits will be included to ensure that corrections, additions and deletions can be made in the framework of the operational environment.

- **Reports:** During the analysis stage standard reports will be identified. Module 1 will probably tabulate major portions of the Quarterly Fluid Minerals Report, create individual well records, and provide ad hoc query capability that is easy to use.

- **Platform:** It is expected that AFMSS will use the modernization platform. However, an analysis of alternative platforms will be performed during the analysis stage. ALMRS platforms should be sufficient to host module 1.

- **Preliminary Analysis of Relationship and Interfaces to Other Projects:** Relationships and interfaces with other project may include Interim Records Release Number 2, the Admin Rehost, ALMRS Initial Operating Capacity (IOC), CRS, and MMS' system. These relationships, interfaces, and how they will be handled will be identified during the

system analysis stage. The project plan will identify when they will be completed.

- **Preliminary Data Interfaces to Other Systems:** Existing State Office databases (AIRS, MRO, CR, Status, LLD, and GCDB) will be the primary data sources. Others may include: PI; Dwight's; etc. Most of the Bureau data interfaces will be required only during the transition period. Most of the outside data systems will require a permanent interface for ongoing interaction. AIRS will be maintained until it is replaced by AFMSS.

- **Security:** The project will follow security requirements as provided for in Department of the Interior Manual 375, Chapter 19, and Bureau of Land Management Manual 1264, both entitled Automated Information System Security. This includes standards and procedures for administrative, physical, personnel, and technical security.

- **Procurement:** Modernization RFP requirements will be followed as appropriate. It is assumed that procurement of the platform can be accomplished through the Modernization contract, however the costs for purchasing the platform out of the project is estimated.

- **Environmental controls:** Office environmental controls will be implemented as per vendor specifications and Bureau requirements.

Risks

- **External Users:** The Minerals Management Service and possibly the oil and gas industry will be involved to realize the full potential of Module 1. Other external users such as the Bureau of Indian Affairs, Indian Tribes, and the Forest Service may be involved in this or later modules. It is important that their participation is timed to realize the best positive impact.

- **Hardware/Software Platform:** A final hardware and software platform cannot be determined until the Modernization award is announced. If the award is delayed, it will impact the Bureau's ability to provide MMS with accurate data and the Bureau will be at risk without consistent and accurate inspection and compliance reports.

- **Distribution of System:** The project will be used by all offices that are involved with the oil and gas program. Hardware and software configuration have not been determined, including distribution of the database.

- **Data Standards Issues:** The project will continue to address issues associated with data standards. The resolution of standards issues has traditionally taken extended periods of time which is a risk to the schedule. Data integrity and quality assurance deficiencies may impede conversion.

- **Resistance to Change:** The users will have to learn a new system. The system will require users to change the way business is conducted. Resistance to change is a risk that we will have to manage and mitigate throughout the project.

- **State Workloads & Costs:** Many of our specialists are spread thin and there is competition for this resource that may impact the timing of deliverables.

Costs

At the time of preparation of this charter, information on the Modernization contract and the ability to obtain equipment through that contract were not available. The following cost estimates display two scenarios: one with purchases covered by the contract and one with purchases covered by the project. The ALMRS machines should be adequate to host module 1 of AFMSS. This also has the advantage of placing the AFMSS module 1 resource data on the same machines as the AFMSS ALMRS data. While classified separately under modernization, these two data sets are very closely interrelated. More information with regard to procurement should be available for the IRMRC meeting on April 27, 1993.

- Development and Implementation costs
  (See 6.1 Preliminary Budget for details)

Workmonths - 370 wms	$1,782,000
Training	$20,000
Travel	$790,000
SUBTOTAL WITHOUT PROCUREMENT	$2,592,000
Procurement	$2,600,000
TOTAL DEVELOP. & IMPLEMENT. COSTS	$5,192,000

- Annual costs:

O&M workmonths - 20 @ $5,000/wm	$100,000
TOTAL ANNUAL COSTS	$100,000

AUTOMATED FLUID MINERAL SUPPORT SYSTEM - MODULE 1

- Maintain AIRS FY94 - FY 97

Standardize & upgrade AIRS PC's	$350,000
Average annual costs	$100,000
TOTAL AIRS COST	$750,000

- Total Ten Year Cost of AFMSS Module 1

	Procurement Covered By:	
	Contract	Project
Development Costs	$2,592,000	$5,192,000
Annual Costs ($100,000 x 5 years)	$500,000	$500,000
TOTAL AFMSS COST	$3,092,000	$5,692,000

- Average annual cost

($3,092,000 + $750,000) / 10 years or		
($5,692,000 + $750,000) / 10 years		
AVERAGE ANNUAL COST	$384,000	$643,000

5.1.3 AFMSS - Full Automation

Assumptions

- This includes automating all oil and gas program functions, including the mapping requirements, in one project.

Risks

- Development of this GIS function may be considered by OMB as exceeding the Bureau's authority under Modernization.
- There is an extremely high risk that insufficient resources will be available to properly develop and implement this alternative. This would result in failure of the whole project so that none of the program would be properly automated.

Costs

- Since this alternative is considered infeasible, cost estimates were not completed.

5.2 ESTIMATED BENEFITS OF AFMSS MODULE 1:

5.2.1 Cost Saving:

The Bureau will realize immediate benefits in system maintenance, application processing, resolution of data issues, and the maintenance of manual files. The Bureau will eventually realize increased efficiencies and productivity ranging from 10-20%. Examples of increased efficiencies include:

- Cost identified with resolving data issues between AIRS/MRO and MMS' production accounting systems will be reduced. We estimate BLM's annual cost for AIRS and MRO at $1.2 million. MMS estimates their cost at $1.5 million. Over a five year period, savings could be about $7 million to $13 million.
- The cost of processing applications is estimated to be about $18.5 million per year. Application processing includes Notice of Staking, Applications for Permit to Drill, applications to perform other activities, and notices of changes to well bore or status. These processes are manually performed by multi-disciplined staff and require coordination of multiple government agencies. Annual savings of $1 million to $2 million should result from efficiencies in accepting electronic applications. Cumulative savings over a 5 year period could equal $5 million to $10 million.
- By having lease operations and inspection and enforcement on the same system, there will be less manual handling and duplicate entry of data. This should both reduce costs and improve data integrity.

The amount of savings depends on how much will be covered by the contract. As discussed above, procurement of the platform by the contract will greatly reduce the project costs. By taking advantage of using the Modernization platform, there are also reduced O&M costs and basic system training will be mostly done through the contract for Admin and ALMRS systems. To summarize, the average annual costs of the two alternatives are:

Procurement covered by contract:	
Redesign AIRS on separate platform (fy94-01) =	$825,000
AFMSS module 1 on Modern. platform (fy93-02) =	$384,000
Average annual savings =	**$441,000**

Procurement covered by project:	
Redesign AIRS on separate platform (fy94-01) =	$825,000

AFMSS module 1 on Modern. platform (fy93-02) =	$643,000
Average annual savings =	**$182,000**

The redesign of AIRS should reduce some of the costs of resolving data integrity problems with AIRS data, it cannot gain the cost savings resulting from automation of lease operations and the integration with these and other activities on the modernization platform.

5.2.2 Production:

- The AFMSS documentation will include requirements documents associated with oil and gas operational activities. These will be of assistance to the various work groups that are involved with BLM's automation efforts including the User Acceptance Team for Release II and the ALMRS Operation Concept Task Force/Work Groups. They will also be of benefit to the BLM Reengineering for Quality Work Group Leaders, Analysts, and Facilitator as they seek ways to improve the BLM's business practices.

- The AFMSS will also produce a data dictionary with oil and gas elements and attributes. This data dictionary will be compiled with the Bureau-wide data dictionary and satisfy much of the fluids minerals program's data requirements.

- The AFMSS will expose BLM personnel to working in an integrated/relational data base with customized menus to guide them through the various input screens and output reports. The experience of working in this type of environment will carry over to the target system and facilitate and possibly shorten training requirements.

- The AFMSS will provide significant knowledge and experience for utilization in definition of the Modernization "Resources" component.

5.2.3 Customer Service:

- Improved image of BLM with the public and other agencies. During the recent demonstrations of the "ALMRS prototype", portions of AFMSS were also demonstrated and favorably received by the audiences which included representatives from the Department's Office of Information Resource Management, the Office of Management and Budget, and Congress.

AUTOMATED FLUID MINERAL SUPPORT SYSTEM - MODULE 1

- Improved operating relationships with the public and private industry by expediting responses and allowing direct access to limited data and functions. Portions of AFMSS has already been tested/utilized by Meridian Oil and the response has been overwhelmingly favorable.
- Improved ability to share data with other agencies and groups. Additional modules will incorporate Native American functionality and on-line interfaces with the Bureau of Indian Affairs (BIA) to improve data sharing. Other modules will establish on-line interfaces with the Minerals Management Service (MMS) to track bonus and royalty payments.

6.0 SUMMARY

6.1 PRELIMINARY BUDGET - AFMSS MODULE 1

Table 3 presents the estimated workmonths by position or group and by stage during the development phase.

Table 3
DEVELOPMENT PHASE
(work months)

	Stage			
Personnel	**System Analysis**	**System Design**	**System Constr.**	**User Accept.**
Project Manager	6	5	15	2
User Representative	6	5	15	2
User Group *	13	-	14	3
Technical Staff	5	40	85	10
Support Staff	2	5	6	2

* Not included in project costs below.

Total wms for the development phase =	211
Total wms for implementation =	159
Total wms for O&M =	100
Total project wms costs =	$2,282,000

PROCUREMENT - If covered by project.

25 Servers @ $30,000 =	$750,000
260 Personal work stations @ $ 2,500 =	650,000
25 Server DBMS @ $11,000 =	275,000
260 Per. work station software @ $ 700 =	182,000
25 Telecom Software @ $7,000 =	175,000
PWS connection to LAN	45,400
25 T1 connection @ $6,000 =	150,000
Software support =	150,000
Hi Speed Printers 30 @ $ 1,500 =	45,000
Development Site	80,000
Total	$ 2,502,400

AUTOMATED FLUID MINERAL SUPPORT SYSTEM - MODULE 1

These estimates assume the following:

- The client server environment will be used.
- Servers will contain data and personal work stations will contain the software.
- State Local Area Networks will be used.
- Project will provide the hardware and software connections.
- Costs track with modernization award.
- Modernization award will provide the client server environment.

Table 4

Management Milestones and Critical Review Points

DATE	EVENT
10/27/92 Date	Approval of original AFMSS Project Charter
04/27/93 Date	Approval of Revised Charter Approval of Draft Project Plan
06/02/93 Date	Review Project Status System Definition & Analysis
07/12/93 Date	Platform Decision
11/30/93 Date	Review of Project Status System Design and Analysis
10/17/95 Date	Test and Final Acceptance Approve Implementation Plan
10/01/97 Date	Implementation Report and Review
11/18/97 Date	Conclude Project and Release Resources

AUTOMATED FLUID MINERAL SUPPORT SYSTEM - MODULE 1

Table 5
PROJECT BUDGET

	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997
Project Team	$268,000	$383,000	$403,000	$378,000	$350,000
Procurement	$80,000	$240,000	$1,090,000	$1,090,000	$100,000
Training	$20,000	$0	$0	$0	$0
Travel	$40,000	$150,000	$250,000	$250,000	$100,000
Total without Procurement	$328,000	$533,000	$653,000	$628,000	$450,000
Total with Procurement	$408,000	$773,000	$1,743,000	$1,718,000	$550,000

FY 93 - Includes cost for project plan, project analysis/design, purchase (if necessary) of development platform (hardware and software) and training of development staff. It also includes travel for user meetings and software development for Module 1.

FY 94 - Includes design and coding, documentation, pilot test, training, purchase (if necessary) of platforms for 4 Beta sites and Beta test preparation. Travel for training, Beta site preparation.

FY 95 - Beta test of module 1, finalize system, procure (if necessary) platform for implementation. Travel for site preparation, installation and training.

FY 96 - Module 1 implementation. Complete procurement (if necessary) of platform and install. Travel for training, site preparation and installation.

FY 97 - Complete Implementation and turn over to Service Center for operations and maintenance. Dollars for platform covers unplanned equipment if purchased through project. Travel is for final installation issues and trouble shooting.

FY 1998-2002 - O&M annual costs = $100,000 per year. This includes operations and maintenance of applications software only. O&M of platform is assumed to be under the Modernization contract.

Funding and Codes - Sub activity 4110 -

Procurement covered by contract -	**Total cost = $3,092,000**
Procurement covered by project -	**Total cost = $5,692,000**

AUTOMATED FLUID MINERAL SUPPORT SYSTEM - MODULE 1

Table 6 depicts the development and implementation schedule for AFMSS. The depiction is by quarter and fiscal year. The time to purchase and acquire equipment is a significant factor impacting the schedule. This may change once details of the Modernization contract and the procedures for acquiring and installing equipment are available.

Table 6

AFMSS Schedule - Development & Implementation

Fiscal Year

Stage	1993				1996				1995				1996				1997			
System Analysis		▨	▨	▨																
System Design			▨	▨	▨															
Construction						▨	▨	▨	▨	▨	▨									
User Acceptance											▨									
Implementation												▨	▨	▨	▨	▨	▨	▨	▨	

Note: Schedule representation is approximation by quarter.

A.F.M.S.S.

AUTOMATED FLUID MINERALS SUPPORT SYSTEM

MODULE 1
PROJECT PLAN - APRIL 1993
U.S.D.I. BUREAU OF LAND MANAGEMENT

Attachment 2-1

DRAFT

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Appendix I Summary Milestones
Appendix II Task Status Report
Appendix III AFMSS Schedule
Appendix IV Resources and Assignments
Appendix V Detail Report

AFMSS PROJECT PLAN
Module 1

1. Project Overview

1.1 Description

The Automated Fluids Minerals Support System (AFMSS) is an oil and gas resource driven project. It involves the integration of oil and gas related data bases into one system. The system will be constructed in modules and will prepare the oil and gas program for integrating its functional and data needs with the ALMRS/Modernization project.

This plan will focus on Lease operations and Inspection and Enforcement functions of the oil and gas program. System development will follow the Bureau's life cycle management process.

1.1.1 Scope

AFMSS will be a Bureau-wide system. It will replace the Automated Inspection Records System (AIRS) and interface with Minerals Management Service, Bureau of Indian Affairs, Forest Service, State Oil and Gas Commissions and the oil and gas Industry. All oil and gas functions will eventually be included in the system with the exceptions of those functions that are not cost effective. This plan lays out the steps to develop Module 1. The oil and gas user community will define the specific Module 1 requirements.

1.1.2 Objectives

* Remove data integrity issues
* Improve program effectiveness
* Meet user needs
* Prepare the oil and gas program for Modernization

1.1.3 Assumptions/Constraints

* ALMRS Interim Release 2.0 and IOC will remain on schedule.

* ALMRS/Modernization contract award will remain on schedule.

* New Mexico will continue to provide technical support to the completion of Module 1.

2. Plan Organization

The project plan outline tracks the life cycle management process, i.e. analysis stage, design stage, construction stage, etc. The plan is dynamic. As presented, it represents an estimate of the tasks involved and time it will take to complete the project. It is expected that as the project progresses additional tasks will be identified and added to the plan. Time adjustments will also be made. All of the project plans documentation is maintained in the Time Line project management software. As tasks, dates, durations, or deadlines shift, changes are made in Time Line and are immediately reflected in the schedule and associated reports.

2.2 Plan Contents

The project plan does not duplicate the information provided in the Project Charter, but contains the tasks necessary to implement the decisions approved in the Charter. The following documents are provided to give a quick view of the AFMSS project.

2.2.1. Summary Milestones

This report identifies the key tasks for the project, and the anticipated completion dates for each. (Appendix I)

2.2.2 Task Status Report

This report shows each task that is anticipated to complete the project. The report also shows the scheduled (or actual) completion date, as well as the status of each task. "Done" means the task is completed; "started" means the task is underway; "Future" means the task has not started. (Appendix II)

2.2.3. AFMSS Schedule

This is a Gantt chart showing the start date and completion date of all tasks, and a graphic depiction of tasks underway or scheduled in the future. It also displays the relationships among tasks through time. (Appendix III)

2.2.4. Resources and Assignments

This report is preceded by a listing of the resources or individuals or organizations that are involved in the project and their organizational location. The report identifies the tasks that each resource is expected to perform or participate in, and the dates of that involvement. (Appendix IV)

2.2.5. Detail Report

This report shows each task and sub task. It includes the start and end date, the duration of the task in work days, the resources assigned, description, and the preceding and succeeding task. (Appendix V)

3. Budget and Funding

Funding is provided by the Oil and gas program on an annual basis. The project will be reviewed before each budget cycle as to progress and resource availability. It is estimated that the project cost will be $ 5.7 million including platform, work months and travel. The cost per Fiscal Year is as follows: $408,000 in FY 93, $ 773,000 in FY94, $1,743,000 in FY95, $1,718,000, $550,000 in FY 97 and $100,000 in FY 98-02.

4. Plan Maintenance

The Project Plan will be maintained by the Project Manager. It will be updated at least monthly, with the Task Status Report and any other changes mailed to the project team and sponsor. Changes in plan direction or objectives must be approved by the Project Sponsor.

5. Review and Approval

This plan has been reviewed by the oil and gas user groups, the AFMSS Project Management Board, and the Service Center Division of Project Management. Their comments have been incorporated in the document.

Prepared by: ______________________ ________
Project Manager Date

Recommended by: ______________________ ________
Project Sponsor Date

Approved by: ______________________ ________
IRMRC Chairperson Date

Maintenance Instructions

To all holders of this document:

This is the first release of the Automated Fluid Minerals Support System project plan. Revisions to this plan will be made by issuing replacement pages.

All changes to this document should be recorded on the Record of Change form (following page). Copies of the authority letter, memorandum, or document instituting the change will be inserted, in chronological order, immediately following the Record of Change Form.

APPENDIX I

SUMMARY MILESTONES

Schedule Name : Automated Fluid Minerals Support System [AFMSS]
Responsible : Joe Chesser
As-of Date : 2-Apr-93 11:00am Schedule File : MILESTON

Full schedule for developing an relational data base that will serve the need of the oil and gas program

WBS Code	Task Name	End Date	Start Status
1.1	Statement of Need	19-Aug-92	Done
1.4	Project Charter-IRMRC Appr.	29-Apr-93	Started
1.5	Project Plan	13-May-93	Started
2.8	Modernization Platform Award	28-Jun-93	Future
2.1.10	System-Segment Spec Review	2-Jun-93	Future
2.9	Platform Decision-Project Rev	12-Jul-93	Future
2.15	Critical Design Review	22-Nov-93	Future
2.16	Project Review	30-Nov-93	Future
3.3.3	Formal Test of Pilot	26-Sep-94	Future
3.3.4	Project Review-Assess Product	3-Oct-94	Future
3.3.8	Beta Test[s]	15-Nov-95	Future
3.3.8.9	Final Acceptance Test	17-Oct-95	Future
4	Implement System	1-Oct-97	Future
5	Operations & Maintenance	16-Oct-97	Future
6	Conclude Proj & Release Rescs	18-Nov-97	Future

Attachment 2-8

APPENDIX II

TASK STATUS REPORT

Schedule Name : Automated Fluid Minerals Support System [AFMSS]
Responsible : Joe Chesser
As-of Date : 2-Apr-93 12:00pm Schedule File : AFMSSPP1

Full schedule for developing an relational data base that will serve the need of the oil and gas program

WBS	Task Name	End Date	Start Status
1	INITIATE PROJECT	14-May-93	Started
1.1	Statement of Need	19-Aug-92	Done
1.2	Hold Initial Project Meeting	29-Sep-92	Done
1.3	Document Prototype	19-Apr-93	Started
1.4	Project Charter-IRMRC Appr.	30-Apr-93	Started
1.4.1	Draft Charter	9-Oct-92	Done
1.4.2	Field Review	26-Oct-92	Done
1.4.3	Approve Charter	27-Oct-92	Done
1.4.4	Revise Charter	5-Mar-93	Started
1.4.5	Review of Revised Charter	16-Apr-93	Future
1.4.6	Include Comments to Charter	30-Apr-93	Future
1.4.7	Approval of Revised Charter	30-Apr-93	Future
1.5	Project Plan	14-May-93	Started
1.5.1	Draft Project Plan	5-Mar-93	Started
1.5.2	Review Comments-Adjust Plan	14-May-93	Future
1.5.3	Project Plan-IRMRC Approval	14-May-93	Future
1.6	Three Year Automation Plan	12-Feb-93	Done
1.7	Establish User Team	27-Oct-92	Done
2	SYSTEM ANALYSIS-DESIGN	2-Mar-94	Started
2.1	Develop System Segment Specs	9-Jul-93	Started
2.1.1	Define Lease Operation Req	24-May-93	Started
2.1.2	Define I&E Requirements	21-May-93	Started
2.1.3	Define Reservoir Mgt Req	24-May-93	Started
2.1.4	Define Leas and adj requir	21-May-93	Started
2.1.5	Define Reporting Requirement	21-May-93	Started
2.1.6	Define Data Security Needs	21-May-93	Started
2.1.7	Define Interface Requirement	21-May-93	Started
2.1.8	Develop Data Element Diction	4-Jun-93	Future
2.1.9	Records Release 2-ALMRS IOC	9-Jul-93	Started
2.1.10	System-Segment Spec Review	2-Jun-93	Future
2.2	Develop Software Requirements	6-Jul-93	Future
2.3	Develop System-Seg Design Doc	5-Aug-93	Future
2.4	Write Software Develop Plan	20-Aug-93	Future
2.5	Write Software Test Plan	20-Aug-93	Future
2.6	Write Softw Test Description	5-Aug-93	Future
2.7	Quality Assurance Review	3-Sep-93	Future
2.8	Modernization Platform Award	28-Jun-93	Future
2.9	Platform Decision-Project Rev	12-Jul-93	Future
2.10	Procure Platform	21-Jan-94	Future
2.11	Install Dev Site Platform	28-Jan-94	Future
2.12	Train Dev Team - Platform	2-Mar-94	Future

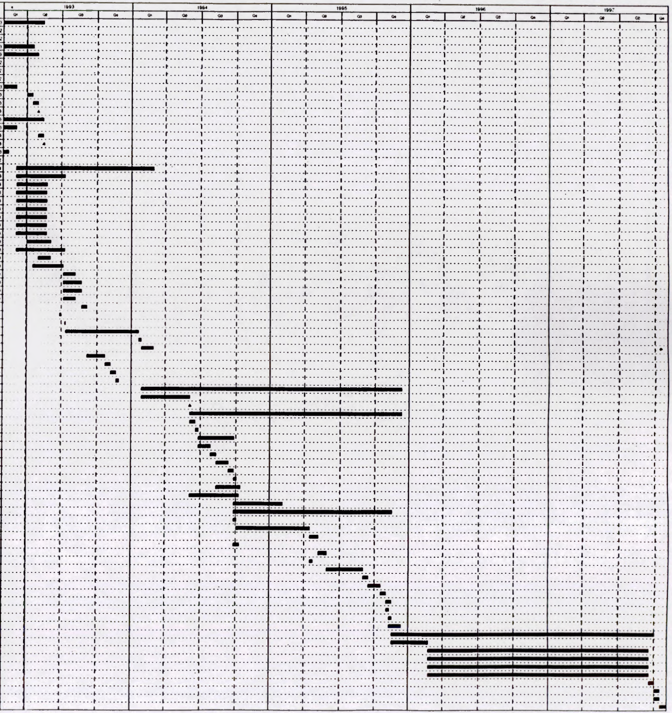
```
                                                   End        Start
WBS          Task Name                             Date       Status
---------    --------------------------------    ---------   -------
2.13           Detail Software Design Doc        22-Oct-93   Future
2.14           Detail Interface Design Doc        5-Nov-93   Future
2.15           Critical Design Review            22-Nov-93   Future
2.16           Project Review                    30-Nov-93   Future
3            CONSTRUCTION STAGE                  11-Dec-95   Future
3.1            Perform Coding and Unit Test       3-Jun-94   Future
3.2            Perform Configuration Mgt Act.     6-Jun-94   Future
3.3            System Testing and Assessment     11-Dec-95   Future
3.3.1            Perform Test Readiness Revie    17-Jun-94   Future
3.3.2            Train UAT in Test procedures    24-Jun-94   Future
3.3.3            Formal Test of Pilot            26-Sep-94   Future
3.3.3.1            Perform Test One              27-Jul-94   Future
3.3.3.2            Correct Discrepancies         10-Aug-94   Future
3.3.3.3            Perform Test Two              12-Sep-94   Future
3.3.3.4            Develop Test Report           26-Sep-94   Future
3.3.4            Project Review-Assess Produc     3-Oct-94   Future
3.3.5            Update Software-design doc      13-Oct-94   Future
3.3.6            Draft System Operator Manual     7-Oct-94   Future
3.3.7            Draft Users Manual               3-Feb-95   Future
3.3.8            Beta Test[s]                    15-Nov-95   Future
3.3.8.1            Beta Hardware Configuratio     3-Oct-94   Future
3.3.8.2            Procure Platform              14-Apr-95   Future
3.3.8.3            Install Platform- Beta Sit     5-May-95   Future
3.3.8.4            Finalize Beta Test Plan       11-Oct-94   Future
3.3.8.5            Data Conversion at Beta Si    26-May-95   Future
3.3.8.6            Train Beta Test Users         21-Apr-95   Future
3.3.8.7            Perform Functional Qual. T    30-Aug-95   Future
3.3.8.8            System Modifications          14-Sep-95   Future
3.3.8.9            Final Acceptance Test         17-Oct-95   Future
3.3.8.10           Develop Final Test Report     31-Oct-95   Future
3.3.8.11           Finalize Documentation        15-Nov-95   Future
3.3.8.12           Project Review                 7-Nov-95   Future
3.3.9            Final Hardware Config Doc       15-Nov-95   Future
3.3.10           Revise Implementation Plan      11-Dec-95   Future
4            IMPLEMENT SYSTEM                     1-Oct-97   Future
4.1            Procure Platform                  22-Feb-96   Future
4.2            Install Platform-Field Offices    17-Sep-97   Future
4.3            Data Conversion                   17-Sep-97   Future
4.4            Train Users                       17-Sep-97   Future
4.5            Site Test                         17-Sep-97   Future
4.6            Implementation Report              1-Oct-97   Future
5            OPERATIONS & MAINTENANCE            16-Oct-97   Future
5.1            Prepare and Present Maint Plan    16-Oct-97   Future
6            CONCLUDE PROJ & RELEASE RESCS       18-Nov-97   Future
```

APPENDIX III

AFMSS SCHEDULE

AFMSS – Module 1 -- Project Schedule

WBS Code	Task Name	Start Date	End Date
1	INITIATE PROJECT	19-Aug-92	14-May-93
1 1	Statement of Need	16-Aug-92	19-Aug-92
1 2	Hold Initial Project Meeting	28-Sep-92	29-Sep-92
1 3	Document Prototype	7-Oct-92	16-Apr-93
1 4	Project Charter/IRMRC Appr	19-Aug-92	30-Apr-93
1 4 1	Draft Charter	19-Aug-92	9-Oct-92
1 4 2	Field Review	13-Oct-92	26-Oct-92
1 4 3	Approve Charter	27-Oct-92	27-Oct-92
1 4 4	Revise Charter	27-Oct-92	5-Mar-93
1 4 5	Review of Revised Charter	2-Apr-93	16-Apr-93
1 4 6	Include Comments to Charter	18-Apr-93	30-Apr-93
1 4 7	Approval of Revised Charter	30-Apr-93	30-Apr-93
1 5	Project Plan	28-Oct-92	14-May-93
1 5 1	Draft Project Plan	28-Oct-92	5-Mar-93
1 5 2	Review Comments/Adjust Plan	30-Apr-93	14-May-93
1 5 3	Project Plan/IRMRC Approval	14-May-93	14-May-93
1 6	Three Year Automation Plan	3-Feb-93	12-Feb-93
1 7	Establish User Team	28-Sep-92	27-Oct-92
2	SYSTEM ANALYSIS/DESIGN	8-Mar-93	2-Mar-94
2 1	Develop System Segment Specs	8-Mar-93	9-Jul-93
2 1 1	Define Lease Operation Req	8-Mar-93	24-May-93
2 1 2	Define I&E Requirements	8-Mar-93	21-May-93
2 1 3	Define Reservoir Mgt Req	8-Mar-93	24-May-93
2 1 4	Define Leas and adj reque	8-Mar-93	21-May-93
2 1 5	Define Reporting Requirements	8-Mar-93	21-May-93
2 1 6	Define Data Security Needs	8-Mar-93	21-May-93
2 1 7	Define Interface Requirements	8-Mar-93	21-May-93
2 1 8	Develop Data Element Dictionary	2-Apr-93	4-Jun-93
2 1 9	Records Release 2/ALMRS IOC	8-Mar-93	9-Jul-93
2 1 10	System/Segment Spec Review	3-May-93	2-Jun-93
2 2	Develop Software Requirements	19-Apr-93	8-Jul-93
2 3	Develop System/Seg Design Doc	7-Jul-93	5-Aug-93
2 4	Write Software Develop Plan	7-Jul-93	20-Aug-93
2 5	Write Software Test Plan	7-Jul-93	20-Aug-93
2 6	Write Softw Test Description	7-Jul-93	5-Aug-93
2 7	Quality Assurance Review	[illegible]-Aug-93	3-Sep-93
2 8	Modernization Platform [illegible]	[illegible]	[illegible]
2 9	Platform [illegible]	[illegible]	[illegible]
2 10	Procure Platform	[illegible]	[illegible]-Jan-94
2 11	Install Dev Site Platform	24-Jan-94	28-Jan-94
2 12	Train Dev Team - Platform	31-Jan-94	2-Mar-94
2 13	Detail Software Design Doc	[illegible]-Sep-93	[illegible]
2 14	Detail Interface Design Doc	[illegible]-Oct-93	[illegible]-Nov-93
2 15	Critical Design Review	8-Nov-93	22-Nov-93
2 16	Project Review	23-Nov-93	30-Nov-93
3	CONSTRUCTION STAGE	31-Jan-94	11-Dec-95
3 1	Perform Coding and Unit Test	31-Jan-94	3-Jun-94
3 2	Perform Configuration Mgt Act	6-Jun-94	6-Jun-94
3 3	System Testing and Assessment	6-Jun-94	11-Dec-95
3 3 1	Perform Test Readiness Review	6-Jun-94	17-Jun-94
3 3 2	Train UAT in Test procedures	20-Jun-94	24-Jun-94
3 3 3	Formal Test of Pilot	27-Jun-94	28-Sep-94
3 3 3 1	Perform Test One	27-Jun-94	27-Jul-94
3 3 3 2	Correct Discrepancies	28-Jul-94	10-Aug-94
3 3 3 3	Perform Test Two	11-Aug-94	12-Sep-94
3 3 3 4	Develop Test Report	13-Sep-94	28-Sep-94
3 3 4	Project Review/Assess Product	27-Sep-94	3-Oct-94
3 3 5	Update Software/design doc	11-Aug-94	13-Oct-94
3 3 6	Draft System Operator Manual	6-Jun-94	7-Oct-94
3 3 7	Draft Users Manual	27-Sep-94	3-Feb-95
3 3 8	Beta Test(s)	27-Sep-94	15-Nov-95
3 3 8 1	Beta Hardware Configuration	27-Sep-94	3-Oct-94
3 3 8 2	Procure Platform	4-Oct-94	14-Apr-95
3 3 8 3	Install Platform/ Beta Sites	17-Apr-95	5-May-95
3 3 8 4	Finalize Beta Test Plan	27-Sep-94	11-Oct-94
3 3 8 6	Data Conversion at Beta Sites	8-May-95	26-May-95
3 3 8 8	Train Beta Test Users	17-Apr-95	21-Apr-95
3 3 8 7	Perform Functional Qual Test	30-May-95	30-Aug-95
3 3 8 8	System Modifications	31-Aug-95	14-Sep-95
3 3 8 9	Final Acceptance Test	15-Sep-95	17-Oct-95
3 3 8 10	Develop Final Test Report	18-Oct-95	31-Oct-95
3 3 8 11	Finalize Documentation	1-Nov-95	15-Nov-95
3 3 8 12	Project Review	1-Nov-95	7-Nov-95
3 3 9	Final Hardware Config Doc	6-Nov-95	15-Nov-95
3 3 10	Revise Implementation Plan	8-Nov-95	11-Dec-95
4	IMPLEMENT SYSTEM	16-Nov-95	1-Oct-97
4 1	Procure Platform	18-Nov-95	22-Feb-96
4 2	Install Platform/Field Offices	23-Feb-96	17-Sep-97
4 3	Data Conversion	23-Feb-96	17-Sep-97
4 4	Train Users	23-Feb-96	17-Sep-97
4 5	Site Test	23-Feb-96	17-Sep-97
4 6	Implementation Report	18-Sep-97	1-Oct-97
5	OPERATIONS & MAINTENANCE	2-Oct-97	16-Oct-97
5 1	Prepare and Present Maint Plan	2-Oct-97	16-Oct-97
6	CONCLUDE PROJ & RELEASE RESCS	17-Oct-97	16-Nov-97



APPENDIX IV

RESOURCES AND ASSIGNMENTS

```
Schedule Name : Automated Fluid Minerals Support System [AFMSS]
Responsible   : Joe Chesser
As-of Date    : 2-Apr-93 10:00am       Schedule File : AFMSSPP1
```

Full schedule for developing an relational data base that will serve the need of the oil and gas program

Resource Name	Resource Full Name
Baca	Lou Baca [NM 950]
Baird	Judy Baird [NM 940]
Beta sites	Gret Falls, Durango, Farmington
Bright	Judy Bright [NM 950]
Broderick	John W. Broderick [WO 600]
Brown	Paul Brown [WO 600-NM 921]
Cervantes	Rob Cervantes [CA 950]
Chesser	Joe Chesser [NM 921]
Deuter	John Dueter Q&A Cooridnator
DSD's	Minerals Deputy State Directors
field O	Field Offices
Gazewood	Jim Gazewood [WO 600-WY920]
Hernandez	Tony Hernandez [NM 924]
Hopkins C	Chris Hopkins [NM 954c]
IRMRC	Infor. Res. Manag. Rev. Council
Marcella	Marcella Montoya [NM 940]
Mod Team	ALMRS-Modernization Team
O'Connor	Barbara O'Connor [NM 921]
Oden H.	Hillary Oden [WO 600]
Ser. Cent.	Service Center
TBD	To Be Determined
TechTeam	Technical Team
Thibodeau	Gene Thibodeau [NM 950]
User Group	State Functional Representative
Wolf	Jim Wolf [NM 950]

Schedule Name : Automated Fluid Minerals Support System [AFMSS]
Responsible : Joe Chesser
As-of Date : 2-Apr-93 10:00am   Schedule File : AFMSSPP1

Full schedule for developing an relational data base that will serve the need of the oil and gas program

Assignment Report from 1-Mar-93 through 31-Oct-97

Resource Name	Start Date	End Date	Task WBS	Task Name
Baca	N-A			
Baird	N-A			
Beta sites	17-Apr-95	5-May-95	3.3.8.3	Install Platform- Beta Si
	27-Sep-94	11-Oct-94	3.3.8.4	Finalize Beta Test Plan
	30-May-95	30-Aug-95	3.3.8.7	Perform Functional Qual.
Bright	31-Jan-94	2-Mar-94	2.12	Train Dev Team - Platform
Broderick	27-Oct-92	5-Mar-93	1.4.4	Revise Charter
	30-Apr-93	13-May-93	1.5.2	Review Comments-Adjust Pl
	12-Jul-93	12-Jul-93	2.9	Platform Decision-Project
	23-Nov-93	30-Nov-93	2.16	Project Review
	13-Sep-94	26-Sep-94	3.3.3.4	Develop Test Report
	27-Sep-94	3-Oct-94	3.3.4	Project Review-Assess Pro
	15-Sep-95	17-Oct-95	3.3.8.9	Final Acceptance Test
	1-Nov-95	7-Nov-95	3.3.8.12	Project Review
Brown	28-Oct-92	5-Mar-93	1.5.1	Draft Project Plan
	8-Mar-93	9-Jul-93	2.1	Develop System Segment Sp
	8-Mar-93	24-May-93	2.1.1	Define Lease Operation Re
	8-Mar-93	21-May-93	2.1.2	Define I&E Requirements
	8-Mar-93	24-May-93	2.1.3	Define Reservoir Mgt Req
	8-Mar-93	21-May-93	2.1.4	Define Leas and adj requi
	8-Mar-93	21-May-93	2.1.5	Define Reporting Requirem
	8-Mar-93	21-May-93	2.1.6	Define Data Security Need
	8-Mar-93	21-May-93	2.1.7	Define Interface Requirem
	3-May-93	2-Jun-93	2.1.10	System-Segment Spec Revie
	19-Apr-93	6-Jul-93	2.2	Develop Software Requirem
	7-Jul-93	5-Aug-93	2.3	Develop System-Seg Design
	6-Jun-94	17-Jun-94	3.3.1	Perform Test Readiness Re
	20-Jun-94	24-Jun-94	3.3.2	Train UAT in Test procedu
	27-Jun-94	26-Sep-94	3.3.3	Formal Test of Pilot
	27-Jun-94	27-Jul-94	3.3.3.1	Perform Test One
	11-Aug-94	12-Sep-94	3.3.3.3	Perform Test Two
	13-Sep-94	26-Sep-94	3.3.3.4	Develop Test Report
	27-Sep-94	3-Feb-95	3.3.7	Draft Users Manual

```
Schedule Name : Automated Fluid Minerals Support System [AFMSS]
Responsible   : Joe Chesser
As-of Date    : 2-Apr-93 10:00am       Schedule File : AFMSSPP1

Full schedule for developing an relational data base that
will serve the need of the oil and gas program



Assignment Report from  1-Mar-93 through 31-Oct-97
-------------------------------------------------------------------------------------------

Resource    Start      End        Task       Task
Name        Date       Date       WBS        Name
----------  ---------  ---------  --------   -------------------------
            27-Sep-94   3-Oct-94  3.3.8.1    Beta Hardware Configurati
            27-Sep-94  11-Oct-94  3.3.8.4    Finalize Beta Test Plan
            17-Apr-95  21-Apr-95  3.3.8.6    Train Beta Test Users
            30-May-95  30-Aug-95  3.3.8.7    Perform Functional Qual.
            15-Sep-95  17-Oct-95  3.3.8.9    Final Acceptance Test
            18-Oct-95  31-Oct-95  3.3.8.10   Develop Final Test Report
             1-Nov-95  15-Nov-95  3.3.8.11   Finalize Documentation
            23-Feb-96  17-Sep-97  4.2        Install Platform-Field Of
             2-Oct-97  16-Oct-97  5.1        Prepare and Present Maint

Cervantes   N-A

Chesser     19-Aug-92  29-Apr-93  1.4        Project Charter-IRMRC App
            27-Oct-92   5-Mar-93  1.4.4      Revise Charter
            16-Apr-93  29-Apr-93  1.4.6      Include Comments to Chart
            28-Oct-92   5-Mar-93  1.5.1      Draft Project Plan
            30-Apr-93  13-May-93  1.5.2      Review Comments-Adjust Pl
             8-Mar-93   9-Jul-93  2.1.9      Records Release 2-ALMRS I
             3-May-93   2-Jun-93  2.1.10     System-Segment Spec Revie
             7-Jul-93   5-Aug-93  2.3        Develop System-Seg Design
             7-Jul-93  20-Aug-93  2.4        Write Software Develop Pl
             7-Jul-93   5-Aug-93  2.6        Write Softw Test Descript
            23-Aug-93   3-Sep-93  2.7        Quality Assurance Review
            12-Jul-93  12-Jul-93  2.9        Platform Decision-Project
            13-Jul-93  21-Jan-94  2.10       Procure Platform
            24-Jan-94  28-Jan-94  2.11       Install Dev Site Platform
            31-Jan-94   2-Mar-94  2.12       Train Dev Team - Platform
             7-Sep-93  22-Oct-93  2.13       Detail Software Design Do
            25-Oct-93   5-Nov-93  2.14       Detail Interface Design D
             8-Nov-93  22-Nov-93  2.15       Critical Design Review
            23-Nov-93  30-Nov-93  2.16       Project Review
             6-Jun-94   6-Jun-94  3.2        Perform Configuration Mgt
             6-Jun-94  17-Jun-94  3.3.1      Perform Test Readiness Re
            20-Jun-94  24-Jun-94  3.3.2      Train UAT in Test procedu
            27-Jun-94  26-Sep-94  3.3.3      Formal Test of Pilot
            27-Jun-94  27-Jul-94  3.3.3.1    Perform Test One
            28-Jul-94  10-Aug-94  3.3.3.2    Correct Discrepancies
            11-Aug-94  12-Sep-94  3.3.3.3    Perform Test Two
```

Schedule Name : Automated Fluid Minerals Support System [AFMSS]
Responsible : Joe Chesser
As-of Date : 2-Apr-93 10:00am Schedule File : AFMSSPP1

Full schedule for developing an relational data base that will serve the need of the oil and gas program

Assignment Report from 1-Mar-93 through 31-Oct-97

Resource Name	Start Date	End Date	Task WBS	Task Name
	13-Sep-94	26-Sep-94	3.3.3.4	Develop Test Report
	27-Sep-94	3-Oct-94	3.3.4	Project Review-Assess Pro
	11-Aug-94	13-Oct-94	3.3.5	Update Software-design do
	2-Apr-93	5-Aug-93	3.3.6	Draft System Operator Man
	27-Sep-94	3-Oct-94	3.3.8.1	Beta Hardware Configurati
	4-Oct-94	14-Apr-95	3.3.8.2	Procure Platform
	17-Apr-95	5-May-95	3.3.8.3	Install Platform- Beta Si
	30-May-95	30-Aug-95	3.3.8.7	Perform Functional Qual.
	15-Sep-95	17-Oct-95	3.3.8.9	Final Acceptance Test
	18-Oct-95	31-Oct-95	3.3.8.10	Develop Final Test Report
	1-Nov-95	15-Nov-95	3.3.8.11	Finalize Documentation
	1-Nov-95	7-Nov-95	3.3.8.12	Project Review
	8-Nov-95	15-Nov-95	3.3.9	Final Hardware Config Doc
	8-Nov-95	11-Dec-95	3.3.10	Revise Implementation Pla
	16-Nov-95	1-Oct-97	4	IMPLEMENT SYSTEM
	16-Nov-95	22-Feb-96	4.1	Procure Platform
	23-Feb-96	17-Sep-97	4.2	Install Platform-Field Of
	23-Feb-96	17-Sep-97	4.3	Data Conversion
	23-Feb-96	17-Sep-97	4.4	Train Users
	23-Feb-96	17-Sep-97	4.5	Site Test
	18-Sep-97	1-Oct-97	4.6	Implementation Report
	2-Oct-97	16-Oct-97	5.1	Prepare and Present Maint
	17-Oct-97	18-Nov-97	6	CONCLUDE PROJ & RELEASE R
Deuter	3-May-93	2-Jun-93	2.1.10	System-Segment Spec Revie
	23-Aug-93	3-Sep-93	2.7	Quality Assurance Review
	8-Nov-93	22-Nov-93	2.15	Critical Design Review
	6-Jun-94	17-Jun-94	3.3.1	Perform Test Readiness Re
	13-Sep-94	26-Sep-94	3.3.3.4	Develop Test Report
	15-Sep-95	17-Oct-95	3.3.8.9	Final Acceptance Test
	18-Oct-95	31-Oct-95	3.3.8.10	Develop Final Test Report
	1-Nov-95	15-Nov-95	3.3.8.11	Finalize Documentation
DSD's	2-Apr-93	15-Apr-93	1.4.5	Review of Revised Charter
	30-Apr-93	13-May-93	1.5.2	Review Comments-Adjust Pl
field O	3-May-93	2-Jun-93	2.1.10	System-Segment Spec Revie
	16-Nov-95	1-Oct-97	4	IMPLEMENT SYSTEM

```
Schedule Name : Automated Fluid Minerals Support System [AFMSS]
Responsible   : Joe Chesser
As-of Date    : 2-Apr-93 10:00am       Schedule File : AFMSSPP1

Full schedule for developing an relational data base that
will serve the need of the oil and gas program


Assignment Report from  1-Mar-93 through 31-Oct-97
------------------------------------------------------------------------------------

Resource    Start      End        Task      Task
Name        Date       Date       WBS       Name
----------  ---------  ---------  --------  -------------------------
            23-Feb-96  17-Sep-97  4.2       Install Platform-Field Of

Gazewood     7-Oct-92  19-Apr-93  1.3       Document Prototype
             8-Mar-93   9-Jul-93  2.1       Develop System Segment Sp
             8-Mar-93  24-May-93  2.1.1     Define Lease Operation Re
             8-Mar-93  21-May-93  2.1.2     Define I&E Requirements
             8-Mar-93  24-May-93  2.1.3     Define Reservoir Mgt Req
             8-Mar-93  21-May-93  2.1.4     Define Leas and adj requi
             8-Mar-93  21-May-93  2.1.5     Define Reporting Requirem
             8-Mar-93  21-May-93  2.1.6     Define Data Security Need
             8-Mar-93  21-May-93  2.1.7     Define Interface Requirem
             2-Apr-93 · 3-Jun-93  2.1.8     Develop Data Element Dict
             3-May-93   2-Jun-93  2.1.10    System-Segment Spec Revie
            19-Apr-93   6-Jul-93  2.2       Develop Software Requirem
             7-Jul-93   5-Aug-93  2.3       Develop System-Seg Design
             7-Jul-93   5-Aug-93  2.6       Write Softw Test Descript
             7-Sep-93  22-Oct-93  2.13      Detail Software Design Do
            25-Oct-93   5-Nov-93  2.14      Detail Interface Design D
            11-Aug-94  13-Oct-94  3.3.5     Update Software-design do

Hernandez   31-Jan-94   3-Jun-94  3.1       Perform Coding and Unit T
            28-Jul-94  10-Aug-94  3.3.3.2   Correct Discrepancies
             8-May-95  26-May-95  3.3.8.5   Data Conversion at Beta S
            31-Aug-95  14-Sep-95  3.3.8.8   System Modifications

Hopkins C    7-Jul-93  20-Aug-93  2.4       Write Software Develop Pl
            31-Jan-94   3-Jun-94  3.1       Perform Coding and Unit T
            28-Jul-94  10-Aug-94  3.3.3.2   Correct Discrepancies
             8-May-95  26-May-95  3.3.8.5   Data Conversion at Beta S
            31-Aug-95  14-Sep-95  3.3.8.8   System Modifications

IRMRC       30-Apr-93  30-Apr-93  1.4.7     Approval of Revised Chart
            14-May-93  14-May-93  1.5.      Project Plan-IRMRC Approv

Marcella    N-A

Mod Team     8-Mar-93   9-Jul-93  2.1.9     Records Release 2-ALMRS I
            28-Jun-93  28-Jun-93  2.8       Modernization Platform Aw
```

```
Schedule Name : Automated Fluid Minerals Support System [AFMSS]
Responsible   : Joe Chesser
As-of Date    : 2-Apr-93 10:00am       Schedule File : AFMSSPP1

Full schedule for developing an relational data base that
will serve the need of the oil and gas program



Assignment Report from  1-Mar-93 through 31-Oct-97
------------------------------------------------------------------------------------------

Resource    Start      End        Task      Task
Name        Date       Date       WBS       Name
----------  ---------  ---------  --------  -------------------------
O'Connor    N-A

Oden H.     30-Apr-93  13-May-93  1.5.2     Review Comments-Adjust Pl
             3-May-93   2-Jun-93  2.1.10    System-Segment Spec Revie
            12-Jul-93  12-Jul-93  2.9       Platform Decision-Project
            23-Nov-93  30-Nov-93  2.16      Project Review
            27-Sep-94   3-Oct-94  3.3.4     Project Review-Assess Pro
             1-Nov-95   7-Nov-95  3.3.8.12  Project Review

Ser. Cent.   2-Apr-93  15-Apr-93  1.4.5     Review of Revised Charter
            30-Apr-93  13-May-93  1.5.2     Review Comments-Adjust Pl

TBD         N-A

TechTeam    N-A

Thibodeau    8-Mar-93   9-Jul-93  2.1       Develop System Segment Sp
             8-Mar-93  24-May-93  2.1.1     Define Lease Operation Re
             8-Mar-93  21-May-93  2.1.2     Define I&E Requirements
             8-Mar-93  24-May-93  2.1.3     Define Reservoir Mgt Req
             8-Mar-93  21-May-93  2.1.4     Define Leas and adj requi
             8-Mar-93  21-May-93  2.1.5     Define Reporting Requirem
             8-Mar-93  21-May-93  2.1.6     Define Data Security Need
             8-Mar-93  21-May-93  2.1.7     Define Interface Requirem
             3-May-93   2-Jun-93  2.1.10    System-Segment Spec Revie
            19-Apr-93   6-Jul-93  2.2       Develop Software Requirem
             7-Jul-93   5-Aug-93  2.3       Develop System-Seg Design
             7-Jul-93  20-Aug-93  2.4       Write Software Develop Pl
             7-Jul-93  20-Aug-93  2.5       Write Software Test Plan
             7-Jul-93   5-Aug-93  2.6       Write Softw Test Descript
             7-Sep-93  22-Oct-93  2.13      Detail Software Design Do
            25-Oct-93   5-Nov-93  2.14      Detail Interface Design D
             6-Jun-94  17-Jun-94  3.3.1     Perform Test Readiness Re
            20-Jun-94  24-Jun-94  3.3.2     Train UAT in Test procedu
            27-Jun-94  26-Sep-94  3.3.3     Formal Test of Pilot
            27-Jun-94  27-Jul-94  3.3.3.1   Perform Test One
            11-Aug-94  12-Sep-94  3.3.3.3   Perform Test Two
            13-Sep-94  26-Sep-94  3.3.3.4   Develop Test Report
```

```
Schedule Name : Automated Fluid Minerals Support System [AFMSS]
Responsible   : Joe Chesser
As-of Date    : 2-Apr-93 10:00am       Schedule File : AFMSSPP1

Full schedule for developing an relational data base that
will serve the need of the oil and gas program



Assignment Report from  1-Mar-93 through 31-Oct-97
------------------------------------------------------------------------------------------

Resource    Start      End        Task      Task
Name        Date       Date       WBS       Name
----------  ---------  ---------  --------  -------------------------
            11-Aug-94  13-Oct-94  3.3.5     Update Software-design do
            27-Sep-94   3-Oct-94  3.3.8.1   Beta Hardware Configurati
            27-Sep-94  11-Oct-94  3.3.8.4   Finalize Beta Test Plan
             8-May-95  26-May-95  3.3.8.5   Data Conversion at Beta S
            17-Apr-95  21-Apr-95  3.3.8.6   Train Beta Test Users
            30-May-95  30-Aug-95  3.3.8.7   Perform Functional Qual.
            31-Aug-95  14-Sep-95  3.3.8.8   System Modifications
            15-Sep-95  17-Oct-95  3.3.8.9   Final Acceptance Test
            18-Oct-95  31-Oct-95  3.3.8.10  Develop Final Test Report
            23-Feb-96  17-Sep-97  4.2       Install Platform-Field Of
             2-Oct-97  16-Oct-97  5.1       Prepare and Present Maint

User Group   2-Apr-93  15-Apr-93  1.4.5     Review of Revised Charter
            30-Apr-93  13-May-93  1.5.2     Review Comments-Adjust Pl
             8-Mar-93   9-Jul-93  2.1       Develop System Segment Sp
             8-Mar-93  24-May-93  2.1.1     Define Lease Operation Re
             8-Mar-93  21-May-93  2.1.2     Define I&E Requirements
             8-Mar-93  24-May-93  2.1.3     Define Reservoir Mgt Req
             8-Mar-93  21-May-93  2.1.4     Define Leas and adj requi
             8-Mar-93  21-May-93  2.1.5     Define Reporting Requirem
             8-Mar-93  21-May-93  2.1.6     Define Data Security Need
             8-Mar-93  21-May-93  2.1.7     Define Interface Requirem
             2-Apr-93   3-Jun-93  2.1.8     Develop Data Element Dict
             3-May-93   2-Jun-93  2.1.10    System-Segment Spec Revie
            19-Apr-93   6-Jul-93  2.2       Develop Software Requirem
             7-Jul-93  20-Aug-93  2.5       Write Software Test Plan
            12-Jul-93  12-Jul-93  2.9       Platform Decision-Project
            27-Jun-94  27-Jul-94  3.3.3.1   Perform Test One
            11-Aug-94  12-Sep-94  3.3.3.3   Perform Test Two
            27-Sep-94   3-Oct-94  3.3.8.1   Beta Hardware Configurati
            15-Sep-95  17-Oct-95  3.3.8.9   Final Acceptance Test

Wolf        24-Jan-94  28-Jan-94  2.11      Install Dev Site Platform
            17-Apr-95   5-May-95  3.3.8.3   Install Platform- Beta Si
            23-Feb-96  17-Sep-97  4.2       Install Platform-Field Of
```

APPENDIX V

DETAIL REPORT

```
Schedule Name : Automated Fluid Minerals Support System [AFMSS]
Responsible   : Joe Chesser
As-of Date    : 2-Apr-93 12:00pm        Schedule File : AFMSSPP1

Full schedule for developing an relational data base that
will serve the need of the oil and gas program



Task Name
---------
1 - INITIATE PROJECT

Start Date: 19-Aug-92  9:00am
End Date: 14-May-93 12:00pm
Duration in Days: 184.4
Resources:

------------------------------------------------------------------------------------------

Task Name
---------
1.1 - Statement of Need

Start Date: 19-Aug-92  9:00am
End Date: 19-Aug-92  5:00pm
Duration in Days: 1
Resources: Chesser

Successors
----------
1.4 - Project Charter-IRMRC Appr. [E->S]
1.2 - Hold Initial Project Meeting [E->S]

------------------------------------------------------------------------------------------

Task Name
---------
1.2 - Hold Initial Project Meeting

Notes
-----
A meeting of Bureau O&G represenatives from each State was
held to determine if a project should be initiated to
provide the oil and gas program users with the capability
shown in the ALMRS-O&G prototype.  It was decided that a
project charter be drafted for the October IRMRC meeting.
Representatives from the Service Center, BIA and MMS
attended.

An additional meeting was held to discuss the details of the
Charter and estimate the cost.
```

```
Start Date: 28-Sep-92  9:00am
End Date: 29-Sep-92  5:00pm
Duration in Days: 2
Resources: Chesser, Oden H., Cervantes, Brown

Predecessors
------------
1.1 - Statement of Need [E->S]

Successors
----------
1.4 - Project Charter-IRMRC Appr. [E->S]

---------------------------------------------------------------------------------------------

Task Name
---------
1.3 - Document Prototype

Notes
-----
This task concerns documenting the final Software,
Reqirement Specification for the ALMRS Post Lease
Prototype's Application for Permit to Drill Computer
Software Componet.  Work will be  performed by Service
Center personnel using Johnson Controls at a cost less than
$11,000 [$7,800 spent].


Start Date: 7-Oct-92  9:00am
End Date: 19-Apr-93  5:00pm
Duration in Days: 132
Resources: Gazewood

---------------------------------------------------------------------------------------------

Task Name
---------
1.4 - Project Charter-IRMRC Appr.

Notes
-----
Project Charter approved by IRMRC October, 1992.  It stated
that AFMSS would be developed by using Common Data Struture.
The project plan would be prepared for IRMRC approval on
January 27, 1993.  After furthur consideration, it was
determined that AFMSS will use the ALMRS platform and not
use Common Data Structure.   The project plan submittal was
postponed until April 1993.

Start Date: 19-Aug-92  9:00am
End Date: 30-Apr-93 12:00pm
Duration in Days: 174.4
```

Resources: Chesser

Predecessors

1.2 - Hold Initial Project Meeting [E->S]
1.1 - Statement of Need [E->S]

Task Name

1.4.1 - Draft Charter

Start Date: 19-Aug-92 9:00am
End Date: 9-Oct-92 5:00pm
Duration in Days: 37
Resources: Chesser

Successors

1.4.3 - Approve Charter [E->S]
1.4.2 - Field Review [E->S]

Task Name

1.4.2 - Field Review

Start Date: 13-Oct-92 9:00am
End Date: 26-Oct-92 5:00pm
Duration in Days: 10
Resources: User Group

Predecessors

1.4.1 - Draft Charter [E->S]

Successors

1.4.3 - Approve Charter [E->S]

Task Name

1.4.3 - Approve Charter

Notes

Intent of project is to focus on intergrating Bureau data bases, commerical data bases to support the O&G program.

```
Start Date: 27-Oct-92  9:00am
End Date: 27-Oct-92  9:00am
Duration in Days: 0
Resources: IRMRC

Predecessors
------------
1.4.2 - Field Review [E->S]
1.4.1 - Draft Charter [E->S]

Successors
----------
1.4.4 - Revise Charter [E->S]

------------------------------------------------------------------------------------------

Task Name
---------
1.4.4 - Revise Charter

Notes
-----
A 2015 study identified issues concerning the Automated
Inspection Record System.  Issues were: Poor data quaility,
System is passed life cycle, not meeting inspection staff
needs. BMT recommended a redesign of AIRS and MRO.

AIRS-MRO users recommended that AIRS be given a high
priority.

AFMSS user [meeting week of 3-8-93] concluded that lease
operations and I&E be given the priority.  They also
identified core data that supported all oil and gas
functions.

Charter will be revised to reflect this need.

Start Date: 27-Oct-92  9:00am
End Date: 5-Mar-93  5:00pm
Duration in Days: 88
Resources: Chesser, Broderick

Predecessors
------------
1.4.3 - Approve Charter [E->S]

Successors
----------
1.4.7 - Approval of Revised Charter [E->S]
1.4.6 - Include Comments to Charter [E->S]
1.4.5 - Review of Revised Charter [E->S]
```

Task Name

1.4.5 - Review of Revised Charter

Notes

Draft charter was sent to DSD, Service Center project Management Office, WO IRM, WO 600 and user group 3-2-93.

Visited Service Center week of 3-23-93 to discuss Charter, Project Plan, procurement, telecommunications, O&M, Quality Assurance, and equipment sizing.

Final Draft sent to each group for their information and final consideration 4-2-93.

Start Date: 2-Apr-93 12:00pm
End Date: 16-Apr-93 12:00pm
Duration in Days: 10
Resources: User Group, DSD's, Ser. Cent.

Predecessors

1.4.4 - Revise Charter [E->S]

Successors

1.4.6 - Include Comments to Charter [E->S]

Task Name

1.4.6 - Include Comments to Charter

Start Date: 16-Apr-93 12:00pm
End Date: 30-Apr-93 12:00pm
Duration in Days: 10
Resources: Chesser

Predecessors

1.4.5 - Review of Revised Charter [E->S]
1.4.4 - Revise Charter [E->S]

Successors

1.4.7 - Approval of Revised Charter [E->S]
1.5.1 - Draft Project Plan [E->S]
1.5.2 - Review Comments-Adjust Plan [E->S]
1.5.3 - Project Plan-IRMRC Approval [E->S]

Task Name

1.4.7 - Approval of Revised Charter

Notes

Charter will go to the IRM group On April 5 for their formal review and distribution to the IRMRC. IRMRC will meet on 4-27-93.

Start Date: 30-Apr-93 12:00pm
End Date: 30-Apr-93 12:00pm
Duration in Days: 0
Resources: IRMRC

Predecessors

1.4.6 - Include Comments to Charter [E->S]
1.4.4 - Revise Charter [E->S]

Task Name

1.5 - Project Plan

Notes

Project Plan is focused to reflect changes in the Charter. As requirements are identified task and milestones will be adjusted.

Start Date: 28-Oct-92 9:00am
End Date: 14-May-93 12:00pm
Duration in Days: 136.4
Resources:

Task Name

1.5.1 - Draft Project Plan

Start Date: 28-Oct-92 9:00am
End Date: 5-Mar-93 5:00pm
Duration in Days: 87
Resources: Chesser, Brown

Predecessors

1.4.6 - Include Comments to Charter [E->S]

Successors

1.5.3 - Project Plan-IRMRC Approval [E->S]
1.5.2 - Review Comments-Adjust Plan [E->S]

Task Name

1.5.2 - Review Comments-Adjust Plan

Notes

Plan was sent out for review to DSD's, User Group, Service Center's Project Management Office, WO IRM and WO 600 on March 2, 1993. Meeting took place at the Service Center to discuss the plan and project issues during the week of March 23.

Start Date: 30-Apr-93 12:00pm
End Date: 14-May-93 12:00pm
Duration in Days: 10
Resources: User Group, DSD's, Ser. Cent., Broderick, Oden H., Chesser

Predecessors

1.5.1 - Draft Project Plan [E->S]
1.4.6 - Include Comments to Charter [E->S]

Successors

1.5.3 - Project Plan-IRMRC Approval [E->S]

Task Name

1.5.3 - Project Plan-IRMRC Approval

Notes

Plan will go to WO IRM for review and distribution to IRMRC on April 5, 1993. IRMRC meeting will take place April 27, 1993.

Start Date: 14-May-93 12:00pm
End Date: 14-May-93 12:00pm
Duration in Days: 0
Resources: IRMRC

Predecessors

1.5.2 - Review Comments-Adjust Plan [E->S]

1.5.1 - Draft Project Plan [E->S]
1.4.6 - Include Comments to Charter [E->S]

Task Name

1.6 - Three Year Automation Plan

Notes

Prepare hardware, software, workmonth and training needs for the AFMSS project.

Plan covered needed equipment for all states with oil and gas responsibility.

Start Date: 3-Feb-93 9:00am
End Date: 12-Feb-93 5:00pm
Duration in Days: 8
Resources: Chesser

Task Name

1.7 - Establish User Team

Notes

Team was developed from recommendations of the user States. The core team represents each program function. Also, each State with oil and gas responsibility is representated. Once the priority functions are identified the representation will reflect those areas.

Start Date: 28-Sep-92 9:00am
End Date: 27-Oct-92 5:00pm
Duration in Days: 21
Resources: Chesser

Task Name
----
2 - SYSTEM ANALYSIS-DESIGN

Notes

During this stage the following products will be developed: System-Segment Specification [SSS]; Software Requirements Specification [SRS], System Design Document

```
Start Date: 8-Mar-93  9:00am
End Date: 2-Mar-94  5:00pm
Duration in Days: 248
Resources:

------------------------------------------------------------------------------------------

Task Name
---------
2.1 - Develop System Segment Specs

Notes
-----
This documents the high level requirements for each
data elements.

The process will use analysis initiated in 1989.
Draft documents will be reviewed by users teams,
updated and finalized.  This document is the basis for
the SRS document

Each docuement will be reviewed for completeness by the
project team, the service centers O&M group, and program
management office.

Start Date: 8-Mar-93  9:00am
End Date: 9-Jul-93  5:00pm
Duration in Days: 88
Resources: Brown, User Group, Gazewood, Thibodeau

Successors
----------
2.9 - Platform Decision-Project Rev [E->S]

------------------------------------------------------------------------------------------

Task Name
---------
2.1.1 - Define Lease Operation Req

Notes
-----
Involves requirements for lease operations activities such
as receipt of applications for permits to drill, sundries
request [flaring-venting, pit use,  alternative measurement
methods, deepening or pluging etc.], applications
processing, records  keeping, internal data exchange with
inspection and enforcement, reservoir management, and
external data  exchange with MMS, BIA, FS, Industry, etc.

Start Date: 8-Mar-93  4:00pm
End Date: 24-May-93  4:00pm
Duration in Days: 55
```

Resources: Brown, Gazewood, User Group, Thibodeau

Task Name

2.1.2 - Define I&E Requirements

Notes

Involves requirements for the inspection and enforcement segment of the program. Includes data needed to conduct inspections and the source of data. Inspections include production, drilling etc. Also, requirements for recording inspection results such as compliance information, production loss and recovery and type of inspections. Includes interface with lease operations, law enforcement, enviromental protection and other agencies such as MMS and Tribes.

Start Date: 8-Mar-93 9:00am
End Date: 21-May-93 5:00pm
Duration in Days: 55
Resources: Brown, Gazewood, User Group, Thibodeau

Task Name

2.1.3 - Define Reservoir Mgt Req

Notes

Consists of writing requirements for the reservoir management function. Includes drainage, units and agreements, reservoir analysis, well log analysis etc. Involves data flow with lease operations, use of commerical data, and use of special analytical tools.

Start Date: 8-Mar-93 2:00pm
End Date: 24-May-93 2:00pm
Duration in Days: 55
Resources: Brown, Gazewood, User Group, Thibodeau

Task Name

2.1.4 - Define Leas and adj requir

Notes

Write requirements for the leasing and lease adjudication

functions. Includes identification of parcels, stipulations, ownership, surveys, lease status and sales. Involves interfaces with lease operations, NEPA planning processes, inspection and enforcement, reservoir management, and other agencies.

Start Date: 8-Mar-93 9:00am
End Date: 21-May-93 5:00pm
Duration in Days: 55
Resources: Brown, Gazewood, User Group, Thibodeau

Task Name

2.1.5 - Define Reporting Requirements

Notes

Identify reporting requirements. Includes Quarterly Engineering report, inspection activities, compliance reports, drainage cases and status, etc.

Start Date: 8-Mar-93 9:00am
End Date: 21-May-93 5:00pm
Duration in Days: 55
Resources: Brown, Gazewood, User Group, Thibodeau

Task Name

2.1.6 - Define Data Security Needs

Notes

Includes protection of privileged or proprietary data. Also includes general security of data from outside sources.

Software and hardware requirements will be in compliance with Interior Manual 375, Chapter 19, and Bureau Manual 1264. Both manuals are titled Automated Information System Security

Start Date: 8-Mar-93 9:00am
End Date: 21-May-93 5:00pm
Duration in Days: 55
Resources: Brown, User Group, Thibodeau, Gazewood

Task Name

2.1.7 - Define Interface Requirements
Notes

Requirements will be identified during functional [segments] requirements task. Interface requirements will identify interfaces with Records Release 2 ,IOC as well as internal program interfaces and external interfaces. Interfaces will include software and hardware.

Start Date: 8-Mar-93 9:00am
End Date: 21-May-93 5:00pm
Duration in Days: 55
Resources: Brown, Gazewood, User Group, Thibodeau

Task Name

2.1.8 - Develop Data Element Dictionay

Notes

This task falls out of define requirments. A data dictionary will be created. It should be completed at the same time the system specifications document.

Start Date: 2-Apr-93 12:00pm
End Date: 4-Jun-93 12:00pm
Duration in Days: 44
Resources: Gazewood, User Group

Task Name

2.1.9 - Records Release 2-ALMRS IOC

Notes

This will be a check point for the AFMSS project to contact ALMRS IOC and Records Release 2 to review the status of our dvelopement and to determine how best to continue so that we may obtain the appropriate relational interface. The project management office will receive all documents for review. Plus informal contact will be made through the life of the project.

Start Date: 8-Mar-93 9:00am
End Date: 9-Jul-93 5:00pm
Duration in Days: 88
Resources: Chesser, Mod Team

```
Task Name
---------
2.1.10 - System-Segment Spec Review

Notes
-----
System Segment Specifications will be reviewed by the
users.  It will be reviewed again at the SDS stage.

Requirements Specifications will receive a review
IRM resource staff, Quality Assurance,
Operation and Maintenance staff, and program management
staff.

Start Date: 3-May-93  9:00am
End Date: 2-Jun-93  5:00pm
Duration in Days: 22
Resources: User Group, Chesser, Brown, Gazewood, Oden H., Thibodeau, field O, Deuter

Successors
----------
2.9 - Platform Decision-Project Rev [E->S]

-----------------------------------------------------------------------------------------

Task Name
---------
2.2 - Develop Software Requirements

Notes
-----
Software Requirements Specifications is a detail descripton
of the requirements identified in the SSS.  Includes
attributes, data elements, data flow, special processing,
size and length of records.

Work initiated in 1998 will be used and updated.

Start Date: 19-Apr-93  9:00am
End Date: 6-Jul-93  5:00pm
Duration in Days: 55
Resources: Brown, Gazewood, Thibodeau, User Group

Successors
----------
2.4 - Write Software Develop Plan [E->S]
2.5 - Write Software Test Plan [E->S]
2.6 - Write Softw Test Description [E->S]
2.3 - Develop System-Seg Design Doc [E->S]

-----------------------------------------------------------------------------------------
```

```
Task Name
---------
2.3 - Develop System-Seg Design Doc

Notes
-----
This task defines hardware and software minimum
capability that is needed to  support the functional
requirements.  It will identify data volumes, number of
users, location of users,  telecommunication-hardware
interfaces etc.

Start Date: 7-Jul-93  9:00am
End Date: 5-Aug-93  5:00pm
Duration in Days: 22
Resources: Gazewood, Chesser, Brown, Thibodeau

Predecessors
------------
2.2 - Develop Software Requirements [E->S]

--------------------------------------------------------------------------------------------

Task Name
---------
2.4 - Write Software Develop Plan

Notes
-----
This task identifies all programs to be developed, i.e.
job control language, edits, data protection, security.  It
states who, when and how the software will be developed.

A Configuration Management control will be established that
will track changes to system.  Changes will be traced to
requirements identified in the Software Requirements
Specifications.

Start Date: 7-Jul-93  9:00am
End Date: 20-Aug-93  5:00pm
Duration in Days: 33
Resources: Thibodeau, Chesser, Hopkins C

Predecessors
------------
2.2 - Develop Software Requirements [E->S]

Successors
----------
2.7 - Quality Assurance Review [E->S]

--------------------------------------------------------------------------------------------
```

```
Task Name
---------
2.5 - Write Software Test Plan

Notes
-----
Describes the method the applications software is to be
tested.  Includes who will test, how it will be tested, data
to be used and locations of test.  This is a draft plan for
all testing to include pilot and Beta.

Start Date: 7-Jul-93  9:00am
End Date: 20-Aug-93  5:00pm
Duration in Days: 33
Resources: Thibodeau, User Group

Predecessors
------------
2.2 - Develop Software Requirements [E->S]

Successors
----------
3.3.1 - Perform Test Readiness Review [E->S]

---------------------------------------------------------------------------------------------

Task Name
---------
2.6 - Write Softw Test Description

Notes
-----
Write Software Test Description, Procedures and Cases

Start Date: 7-Jul-93  9:00am
End Date: 5-Aug-93  5:00pm
Duration in Days: 22
Resources: Thibodeau, Gazewood, Chesser

Predecessors
------------
2.2 - Develop Software Requirements [E->S]

---------------------------------------------------------------------------------------------

Task Name
---------
2.7 - Quality Assurance Review

Notes
-----
Includes a review of Software Requirements and System design
douments to ensure adequacy, correctness, completeness and
```

```
compliance with policies and standards.  Also, includes a
review of the traceability of the design document to each
requirement.

Start Date: 23-Aug-93  9:00am
End Date: 3-Sep-93  5:00pm
Duration in Days: 10
Resources: Chesser, Deuter

Predecessors
------------
2.4 - Write Software Develop Plan [E->S]

Successors
----------
2.13 - Detail Software Design Doc [E->S]

----------------------------------------------------------------------------------------

Task Name
---------
2.8 - Modernization Platform Award

Notes
-----
Award information will not be available until June 28, 1993.
The information will contain the RDBMS, Caes tool, data
dictionary repository, configuration, etc.  This information
is essential to determining how to proceed with the AFMSS
project.

Start Date: 28-Jun-93  9:00am
End Date: 28-Jun-93  5:00pm
Duration in Days: 1
Resources: Mod Team

----------------------------------------------------------------------------------------

Task Name
---------
2.9 - Platform Decision-Project Rev

Notes
-----
This decision will be based on system requirements,
benefit-cost and availability.

If modernization contract is not available to this project,
we will have to procure through a different process.

Start Date: 12-Jul-93  9:00am
End Date: 12-Jul-93  5:00pm
Duration in Days: 1
```

```
Resources: Chesser, Oden H., User Group, Broderick

Predecessors
------------
2.1.10 - System-Segment Spec Review [E->S]
2.1 - Develop System Segment Specs [E->S]

Successors
----------
2.12 - Train Dev Team - Platform [E->S]
2.10 - Procure Platform [E->S]

-------------------------------------------------------------------------------------------

Task Name
---------
2.10 - Procure Platform

Notes
-----
Time to procure is unknown.  Experience has demonstrated
that the administrative process can take  six months or
longer.  Delivery may take six months depending on
availability of equipment.

If modernization contract is not available, an RFP will have
to prepared and processed.

Start Date: 13-Jul-93  9:00am
End Date: 21-Jan-94  5:00pm
Duration in Days: 132
Resources: Chesser

Predecessors
------------
2.9 - Platform Decision-Project Rev [E->S]

Successors
----------
2.11 - Install Dev Site Platform [E->S]

-------------------------------------------------------------------------------------------

Task Name
---------
2.11 - Install Dev Site Platform

Start Date: 24-Jan-94  9:00am
End Date: 28-Jan-94  5:00pm
Duration in Days: 5
Resources: Chesser, Wolf
```

```
Predecessors
------------
2.10 - Procure Platform [E->S]

Successors
----------
2.12 - Train Dev Team - Platform [E->S]
3.1 - Perform Coding and Unit Test [E->S]

--------------------------------------------------------------------------------

Task Name
---------
2.12 - Train Dev Team - Platform

Notes
-----
If the developement team,i.e. programmers and systems
analyst have not been trained in the selected platform, they
will receive appriopriate training.

Start Date: 31-Jan-94  9:00am
End Date: 2-Mar-94  5:00pm
Duration in Days: 22
Resources: Chesser, Bright

Predecessors
------------
2.11 - Install Dev Site Platform [E->S]
2.9 - Platform Decision-Project Rev [E->S]

--------------------------------------------------------------------------------

Task Name
---------
2.13 - Detail Software Design Doc

Notes
-----
Includes software design document
Document.

Start Date: 7-Sep-93  9:00am
End Date: 22-Oct-93  5:00pm
Duration in Days: 33
Resources: Thibodeau, Gazewood, Chesser

Predecessors
------------
2.7 - Quality Assurance Review [E->S]

Successors
----------
```

```
3.1 - Perform Coding and Unit Test [E->S]
2.16 - Project Review [E->S]
2.14 - Detail Interface Design Doc [E->S]

-------------------------------------------------------------------------------------------

Task Name
---------
2.14 - Detail Interface Design Doc

Start Date: 25-Oct-93  9:00am
End Date: 5-Nov-93  5:00pm
Duration in Days: 10
Resources: Thibodeau, Gazewood, Chesser

Predecessors
------------
2.13 - Detail Software Design Doc [E->S]

Successors
----------
2.15 - Critical Design Review [E->S]

-------------------------------------------------------------------------------------------

Task Name
---------
2.15 - Critical Design Review

Notes
-----
a review that checks for completeness, and compliance with
standards.  Items to be reviewed include software
development document and Software test Plan.

Start Date: 8-Nov-93  9:00am
End Date: 22-Nov-93  5:00pm
Duration in Days: 10
Resources: Chesser, Deuter

Predecessors
------------
2.14 - Detail Interface Design Doc [E->S]

Successors
----------
2.16 - Project Review [E->S]

-------------------------------------------------------------------------------------------

Task Name
---------
2.16 - Project Review
```

```
Notes
-----
Review of the task accomplished during the system
analysis-design stage.  This is a decision point by
management to continue the project to next stage.

Start Date: 23-Nov-93  9:00am
End Date: 30-Nov-93  5:00pm
Duration in Days: 5
Resources: Chesser, Oden H., Broderick

Predecessors
------------
2.15 - Critical Design Review [E->S]
2.13 - Detail Software Design Doc [E->S]

------------------------------------------------------------------------------------------

Task Name
---------
3 - CONSTRUCTION STAGE

Start Date: 31-Jan-94  9:00am
End Date: 11-Dec-95  5:00pm
Duration in Days: 469
Resources:

------------------------------------------------------------------------------------------

Task Name
---------
3.1 - Perform Coding and Unit Test

Notes
-----
Includes programmer coding from detailed design documents.

Start Date: 31-Jan-94  9:00am
End Date: 3-Jun-94  5:00pm
Duration in Days: 88
Resources: Hopkins C, Hernandez

Predecessors
------------
2.13 - Detail Software Design Doc [E->S]
2.11 - Install Dev Site Platform [E->S]

Successors
----------
3.2 - Perform Configuration Mgt Act. [E->S]
```

```
Task Name
---------
3.2 - Perform Configuration Mgt Act.

Notes
-----
Any changes to software will be recorded to track
traceability to orginal requirement through th configuration
management board.

Start Date: 6-Jun-94  9:00am
End Date: 6-Jun-94  9:00am
Duration in Days: 0
Resources: Chesser

Predecessors
------------
3.1 - Perform Coding and Unit Test [E->S]

Successors
----------
3.3 - System Testing and Assessment [E->S]
3.3.1 - Perform Test Readiness Review [E->S]

------------------------------------------------------------------------------------------

Task Name
---------
3.3 - System Testing and Assessment

Notes
-----
Includes testing all aspects of the system, i.e. interface,
data conversions, business practices.

Start Date: 6-Jun-94  9:00am
End Date: 11-Dec-95  5:00pm
Duration in Days: 381
Resources:

Predecessors
------------
3.2 - Perform Configuration Mgt Act. [E->S]

------------------------------------------------------------------------------------------

Task Name
---------
3.3.1 - Perform Test Readiness Review

Notes
-----
```

```
This is a review of all test procedures, software
documentation and configuration management documents to
ensure the project is ready to test.

The test in this case will test a working model in the New
Me State office.  It will include testing the intergration
of all software components.

Procedures will be reviewed by the Quality Assurance staff
from the Service Center.

All documentation will be updated

Start Date: 6-Jun-94  9:00am
End Date: 17-Jun-94  5:00pm
Duration in Days: 10
Resources: Thibodeau, Chesser, Brown, Deuter

Predecessors
------------
3.2 - Perform Configuration Mgt Act. [E->S]
2.5 - Write Software Test Plan [E->S]

Successors
----------
3.3.2 - Train UAT in Test procedures [E->S]

-----------------------------------------------------------------------------------------

Task Name
---------
3.3.2 - Train UAT in Test procedures

Start Date: 20-Jun-94  9:00am
End Date: 24-Jun-94  5:00pm
Duration in Days: 5
Resources: Chesser, Brown, Thibodeau

Predecessors
------------
3.3.1 - Perform Test Readiness Review [E->S]

Successors
----------
3.3.3.1 - Perform Test One [E->S]

-----------------------------------------------------------------------------------------

Task Name
---------
3.3.3 - Formal Test of Pilot

Start Date: 27-Jun-94  9:00am
```

```
End Date: 26-Sep-94  5:00pm
Duration in Days: 64
Resources: Thibodeau, Chesser, Brown

Successors
----------
3.3.4 - Project Review-Assess Product [E->S]

----------------------------------------------------------------------------------------------

Task Name
---------
3.3.3.1 - Perform Test One

Start Date: 27-Jun-94  9:00am
End Date: 27-Jul-94  5:00pm
Duration in Days: 22
Resources: Brown, Chesser, User Group, Thibodeau

Predecessors
------------
3.3.2 - Train UAT in Test procedures [E->S]

Successors
----------
3.3.3.2 - Correct Discrepancies [E->S]

----------------------------------------------------------------------------------------------

Task Name
---------
3.3.3.2 - Correct Discrepancies

Notes
-----
Besides correcting problem includes recording changes for
configuration management.

Start Date: 28-Jul-94  9:00am
End Date: 10-Aug-94  5:00pm
Duration in Days: 10
Resources: Hernandez, Hopkins C, Chesser

Predecessors
------------
3.3.3.1 - Perform Test One [E->S]

Successors
----------
3.3.5 - Update Software-design doc [E->S]
3.3.3.3 - Perform Test Two [E->S]
3.3.7 - Draft Users Manual [E->S]
3.3.8.1 - Beta Hardware Configuration [E->S]
```

```
3.3.8.2 - Procure Platform [E->S]

------------------------------------------------------------------------------------------

Task Name
---------
3.3.3.3 - Perform Test Two

Start Date: 11-Aug-94  9:00am
End Date: 12-Sep-94  5:00pm
Duration in Days: 22
Resources: User Group, Brown, Chesser, Thibodeau

Predecessors
------------
3.3.3.2 - Correct Discrepancies [E->S]

Successors
----------
3.3.3.4 - Develop Test Report [E->S]

------------------------------------------------------------------------------------------

Task Name
---------
3.3.3.4 - Develop Test Report

Notes
-----
Includes test results for hardware, applications
software and relation with platform.

All changes to system [software and hardware] will be
recorded, tracked and reported.

Tests results will receive a quality assurance review.

Start Date: 13-Sep-94  9:00am
End Date: 26-Sep-94  5:00pm
Duration in Days: 10
Resources: Chesser, Thibodeau, Brown, Broderick, Deuter

Predecessors
------------
3.3.3.3 - Perform Test Two [E->S]

Successors
----------
3.3.8.4 - Finalize Beta Test Plan [E->S]
3.3.8.1 - Beta Hardware Configuration [E->S]
3.3.7 - Draft Users Manual [E->S]
```

Task Name

3.3.4 - Project Review-Assess Product

Notes

A review is needed to assess the projects status and to determine if the project should continue to Beta testing.

Start Date: 27-Sep-94 9:00am
End Date: 3-Oct-94 5:00pm
Duration in Days: 5
Resources: Chesser, Oden H., Broderick

Predecessors

3.3.3 - Formal Test of Pilot [E->S]

Task Name

3.3.5 - Update Software-design doc

Notes

Includes each componet and their development files. The file will contain: Design considerations and constraints, documentation and data, schedule and status, test requirements and responsibilities, test cases, test procedures and test results.

Start Date: 11-Aug-94 9:00am
End Date: 13-Oct-94 5:00pm
Duration in Days: 44
Resources: Chesser, Thibodeau, Gazewood

Predecessors

3.3.3.2 - Correct Discrepancies [E->S]

Task Name

3.3.6 - Draft System Operator Manual

Start Date: 6-Jun-94 9:00am
End Date: 7-Oct-94 5:00pm
Duration in Days: 88
Resources: Chesser

```
Task Name
---------
3.3.7 - Draft Users Manual

Start Date: 27-Sep-94  9:00am
End Date: 3-Feb-95  5:00pm
Duration in Days: 88
Resources: Brown

Predecessors
------------
3.3.3.4 - Develop Test Report [E->S]
3.3.3.2 - Correct Discrepancies [E->S]

------------------------------------------------------------------------------------------

Task Name
---------
3.3.8 - Beta Test[s]

Notes
-----
Test sites include Bakersfield, California; Great Falls,
Montana; Durango, Colorado and Farmington.  These test will
include componet testing and full system testing.  All
operational testing will be completed before system is
implemented Bureau wide.

Start Date: 27-Sep-94  9:00am
End Date: 15-Nov-95  5:00pm
Duration in Days: 285
Resources:

------------------------------------------------------------------------------------------

Task Name
---------
3.3.8.1 - Beta Hardware Configuration

Start Date: 27-Sep-94  9:00am
End Date: 3-Oct-94  5:00pm
Duration in Days: 5
Resources: Chesser, Thibodeau, Brown, User Group

Predecessors
------------
3.3.3.4 - Develop Test Report [E->S]
3.3.3.2 - Correct Discrepancies [E->S]

Successors
----------
3.3.8.2 - Procure Platform [E->S]
```

```
Task Name
---------
3.3.8.2 - Procure Platform

Start Date: 4-Oct-94  9:00am
End Date: 14-Apr-95  5:00pm
Duration in Days: 132
Resources: Chesser

Predecessors
------------
3.3.8.1 - Beta Hardware Configuration [E->S]
3.3.3.2 - Correct Discrepancies [E->S]

Successors
----------
3.3.8.6 - Train Beta Test Users [E->S]
3.3.8.3 - Install Platform- Beta Sites [E->S]

------------------------------------------------------------------------------------------

Task Name
---------
3.3.8.3 - Install Platform- Beta Sites

Start Date: 17-Apr-95  9:00am
End Date: 5-May-95  5:00pm
Duration in Days: 15
Resources: Chesser, Beta sites, Wolf

Predecessors
------------
3.3.8.2 - Procure Platform [E->S]

Successors
----------
3.3.8.7 - Perform Functional Qual. Test [E->S]
3.3.8.5 - Data Conversion at Beta Sites [E->S]

------------------------------------------------------------------------------------------

Task Name
---------
3.3.8.4 - Finalize Beta Test Plan

Notes
-----
Plan will include test cases and procedures for testing
cases.  It will include inputs, expected results and
criteria for evaluating the results.

Start Date: 27-Sep-94  9:00am
```

```
End Date: 11-Oct-94  5:00pm
Duration in Days: 10
Resources: Thibodeau, Brown, Beta sites

Predecessors
------------
3.3.3.4 - Develop Test Report [E->S]

Successors
----------
3.3.8.6 - Train Beta Test Users [E->S]

-----------------------------------------------------------------------------

Task Name
---------
3.3.8.5 - Data Conversion at Beta Sites

Start Date: 8-May-95  9:00am
End Date: 26-May-95  5:00pm
Duration in Days: 15
Resources: Hernandez, Hopkins C, Thibodeau

Predecessors
------------
3.3.8.3 - Install Platform- Beta Sites [E->S]

Successors
----------
3.3.8.7 - Perform Functional Qual. Test [E->S]

-----------------------------------------------------------------------------

Task Name
---------
3.3.8.6 - Train Beta Test Users

Start Date: 17-Apr-95  9:00am
End Date: 21-Apr-95  5:00pm
Duration in Days: 5
Resources: Thibodeau, Brown

Predecessors
------------
3.3.8.4 - Finalize Beta Test Plan [E->S]
3.3.8.2 - Procure Platform [E->S]

-----------------------------------------------------------------------------

Task Name
---------
3.3.8.7 - Perform Functional Qual. Test
```

```
Notes
-----
Test will follow the test plan.  This is the functional
qualifications test [FQT].  During this process problems
will be identified and corrected before moving to final
acceptance test.

Start Date: 30-May-95  9:00am
End Date: 30-Aug-95  5:00pm
Duration in Days: 66
Resources: Thibodeau, Chesser, Brown, Beta sites

Predecessors
------------
3.3.8.5 - Data Conversion at Beta Sites [E->S]
3.3.8.3 - Install Platform- Beta Sites [E->S]

Successors
----------
3.3.8.9 - Final Acceptance Test [E->S]
3.3.8.8 - System Modifications [E->S]

-----------------------------------------------------------------------------------------

Task Name
---------
3.3.8.8 - System Modifications

Notes
-----
Includes modifying system and recording changes to the
configuration management document.  Also, includes updating
all documentation.

Start Date: 31-Aug-95  9:00am
End Date: 14-Sep-95  5:00pm
Duration in Days: 10
Resources: Hernandez, Hopkins C, Thibodeau

Predecessors
------------
3.3.8.7 - Perform Functional Qual. Test [E->S]

Successors
----------
3.3.8.9 - Final Acceptance Test [E->S]

-----------------------------------------------------------------------------------------

Task Name
---------
3.3.8.9 - Final Acceptance Test
```

```
Notes
-----
The operational test and evaluation test plan will be
followed. Test results will be recorded and reviewed by
Quality Assurance, as well as the Project Management Team.

Start Date: 15-Sep-95  9:00am
End Date: 17-Oct-95  5:00pm
Duration in Days: 22
Resources: User Group, Chesser, Brown, Thibodeau, Broderick, Deuter

Predecessors
------------
3.3.8.8 - System Modifications [E->S]
3.3.8.7 - Perform Functional Qual. Test [E->S]

Successors
----------
3.3.8.10 - Develop Final Test Report [E->S]
3.3.8.12 - Project Review [E->S]

------------------------------------------------------------------------------------------

Task Name
---------
3.3.8.10 - Develop Final Test Report

Notes
-----
Report will contain test cases, testing procedures, results,
and traceability to requirements.

Report will receive a review by the Quality Assurance Staff
for completeness and compliance with standards.

Start Date: 18-Oct-95  9:00am
End Date: 31-Oct-95  5:00pm
Duration in Days: 10
Resources: Chesser, Brown, Thibodeau, Deuter

Predecessors
------------
3.3.8.9 - Final Acceptance Test [E->S]

Successors
----------
3.3.8.11 - Finalize Documentation [E->S]
3.3.8.12 - Project Review [E->S]

------------------------------------------------------------------------------------------

Task Name
---------
```

3.3.8.11 - Finalize Documentation
Notes

All documents will be updated to reflect changes made during Beta Test. It will include test results and traceability of cahnges to requirements.

Documents will reviewed for completness and compliance with standards by the Service Center's quality assurance representative.

Start Date: 1-Nov-95 9:00am
End Date: 15-Nov-95 5:00pm
Duration in Days: 10
Resources: Brown, Chesser, Deuter

Predecessors

3.3.8.10 - Develop Final Test Report [E->S]

Task Name

3.3.8.12 - Project Review

Notes

A project review will take place to assess the status of the project and to determine if project should continue to implementation.

Start Date: 1-Nov-95 9:00am
End Date: 7-Nov-95 5:00pm
Duration in Days: 5
Resources: Chesser, Oden H., Broderick

Predecessors

3.3.8.10 - Develop Final Test Report [E->S]
3.3.8.9 - Final Acceptance Test [E->S]

Successors

3.3.10 - Revise Implementation Plan [E->S]
3.3.9 - Final Hardware Config Doc [E->S]

Task Name

3.3.9 - Final Hardware Config Doc

Notes

This is task is needed to insure that we have properly sized the platform for each office. The Beta test will provide data that will either verify our earlier conclusions or require us to modify them.

Start Date: 8-Nov-95 9:00am
End Date: 15-Nov-95 5:00pm
Duration in Days: 5
Resources: Chesser

Predecessors

3.3.8.12 - Project Review [E->S]

Successors

4.1 - Procure Platform [E->S]

Task Name

3.3.10 - Revise Implementation Plan

Notes

Implementation plan will be modified if lessons learn require it.

Start Date: 8-Nov-95 9:00am
End Date: 11-Dec-95 5:00pm
Duration in Days: 22
Resources: Chesser

Predecessors

3.3.8.12 - Project Review [E->S]

Task Name
----
4 - IMPLEMENT SYSTEM

Notes

It is expected that implementation will take about two years because of the number of offices, training, data conversion etc. It may require support from IRM staff, such as telecommunications technicians as well as the potential users of the system.

```
Start Date: 16-Nov-95  9:00am
End Date: 1-Oct-97  5:00pm
Duration in Days: 472
Resources: Chesser, field O

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Task Name
---------
4.1 - Procure Platform

Notes
-----
Procurement is expected to take six months.  If resources
allow and Beta Test are going well, this task will be
initiated earlier.  Deliver of equipment will be timed to be
ready for immediate installation and implementation.

Start Date: 16-Nov-95  9:00am
End Date: 22-Feb-96  5:00pm
Duration in Days: 66
Resources: Chesser

Predecessors
------------
3.3.9 - Final Hardware Config Doc [E->S]

Successors
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4.5 - Site Test [E->S]
4.2 - Install Platform-Field Offices [E->S]
4.3 - Data Conversion [E->S]
4.4 - Train Users [E->S]

------------------------------------------------------------------------------------------

Task Name
---------
4.2 - Install Platform-Field Offices

Start Date: 23-Feb-96  9:00am
End Date: 17-Sep-97  5:00pm
Duration in Days: 396
Resources: Chesser, Brown, Thibodeau, field O, Wolf

Predecessors
------------
4.1 - Procure Platform [E->S]

------------------------------------------------------------------------------------------
```

```
Task Name
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4.3 - Data Conversion

Start Date: 23-Feb-96  9:00am
End Date: 17-Sep-97  5:00pm
Duration in Days: 396
Resources: Chesser

Predecessors
------------
4.1 - Procure Platform [E->S]

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Task Name
---------
4.4 - Train Users

Start Date: 23-Feb-96  9:00am
End Date: 17-Sep-97  5:00pm
Duration in Days: 396
Resources: Chesser

Predecessors
------------
4.1 - Procure Platform [E->S]

-----------------------------------------------------------------------------

Task Name
---------
4.5 - Site Test

Notes
-----
Site test is expected to take about 2 weeks.

Start Date: 23-Feb-96  9:00am
End Date: 17-Sep-97  5:00pm
Duration in Days: 396
Resources: Chesser

Predecessors
------------
4.1 - Procure Platform [E->S]

Successors
----------
4.6 - Implementation Report [E->S]

-----------------------------------------------------------------------------
```

```
Task Name
---------
4.6 - Implementation Report

Start Date: 18-Sep-97  9:00am
End Date: 1-Oct-97  5:00pm
Duration in Days: 10
Resources: Chesser

Predecessors
------------
4.5 - Site Test [E->S]

Successors
----------
5.1 - Prepare and Present Maint Plan [E->S]

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Task Name
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5 - OPERATIONS & MAINTENANCE

Start Date: 2-Oct-97  9:00am
End Date: 16-Oct-97  5:00pm
Duration in Days: 10
Resources:

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Task Name
---------
5.1 - Prepare and Present Maint Plan

Notes
-----
The plan will identify the staff who will be reponsible for
making system enhancements.  I will include all
documentation as well as requirements for hardware, software
and training support.

Start Date: 2-Oct-97  9:00am
End Date: 16-Oct-97  5:00pm
Duration in Days: 10
Resources: Chesser, Thibodeau, Brown

Predecessors
------------
4.6 - Implementation Report [E->S]

Successors
----------
6 - CONCLUDE PROJ & RELEASE RESCS [E->S]
```

```
Task Name
---------
6 - CONCLUDE PROJ & RELEASE RESCS

Start Date: 17-Oct-97  9:00am
End Date: 18-Nov-97  5:00pm
Duration in Days: 22
Resources: Chesser

Predecessors
------------
5.1 - Prepare and Present Maint Plan [E->S]

--------------------------------------------------------------------------------------------
```

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